Northern California's Computer Magazine
March 6, 1995 • #134

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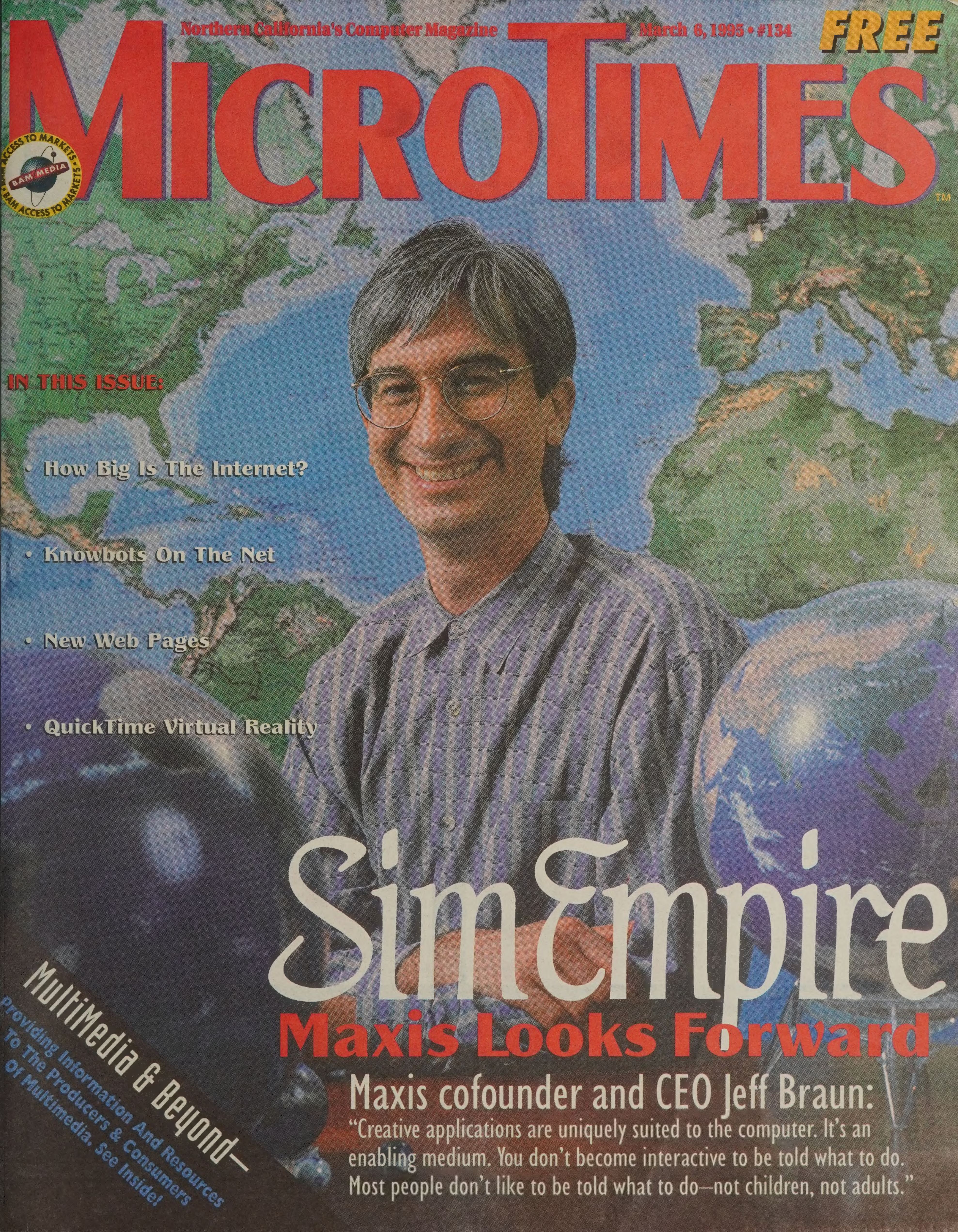

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- How Big Is The Internet?
- Knowbots On The Net
- New Web Pages
- QuickTime Virtual Reality

SimEmpire

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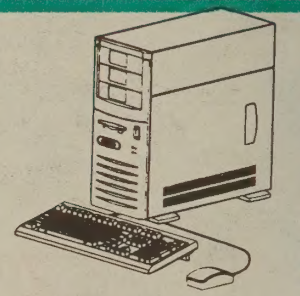

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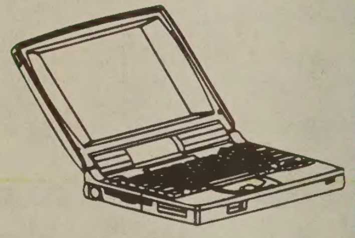

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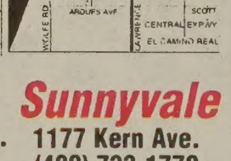

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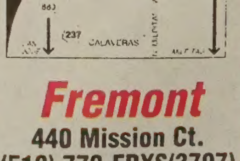

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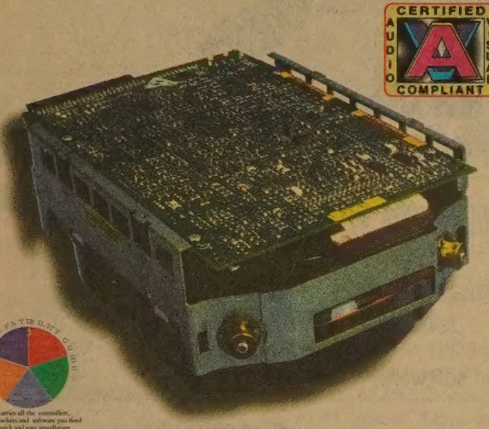

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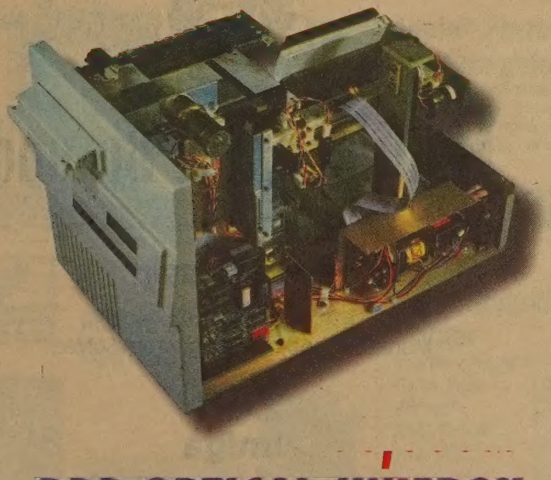

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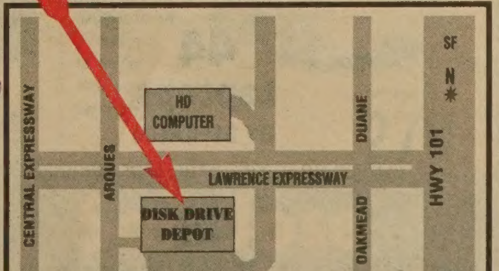

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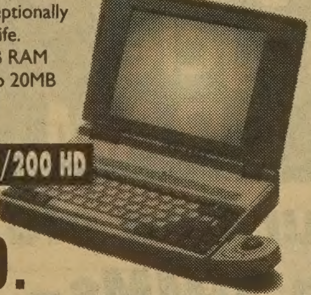

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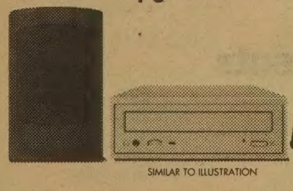

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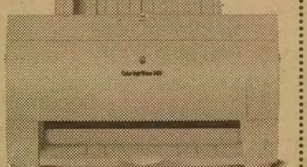

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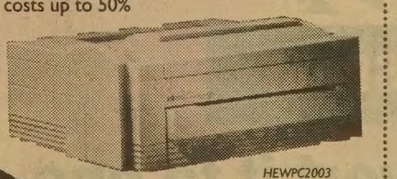

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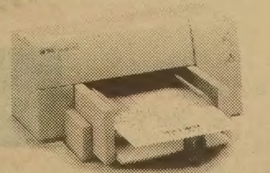

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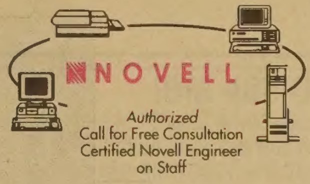

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MICROTIMES™

In Memory Of Kathleen Creighton

In January I went on a much-anticipated vacation on Kauai, having announced to staff and writers my full intention of becoming a tropical vegetable for the duration.

Sneaking onto The WELL one fine morning via the PowerBook on the kitchen table, I was immediately accosted by Kathleen.

"WHY ARE YOU ONLINE?" she demanded. "GO SWIM! GO LIE ON THE BEACH! GET A LIFE!"

As it turned out, this was essentially our last conversation.

• • • • •

Kathleen died unexpectedly on February 4 at her home in Forestville, leaving an enormous void in the online community whose very existence she was fond of denying. Most of us found out by logging onto The WELL and finding a memorial topic in progress, with people from all over cyberspace expressing shock and paying tribute to a woman they'd never met who had profoundly affected their lives.

"Kathleen didn't warm to everyone," said Monsignor Burns at her funeral mass, "just those with *standards.*" Long before she became *casey@well.sf.ca.us*, Kathleen was a force to be reckoned with. Smart, strong-willed, and opinionated, she called 'em as she saw 'em without regard to whom she might alienate in the process. At the same time, she was a fount of information and a rock of support to hundreds of people on the many boards, systems, and newsgroups she frequented.

It was only natural that she should write our Bay Area BBS column, and she did it admirably, highlighting the good and ridiculing the bad (and taking great delight in telling me "I told you so!" when one of her dire prognostications about some ill-behaved system would come to pass). When it came time to start the Online Services column that began last month, I never seriously considered giving the job to anyone else.

In fact, our last cover story was essentially her doing—I'd sent her off to email Tim Oren about the GIF brouhaha in the sure knowledge that she'd do a fine job, and a few days later she mailed me back, "Hey, Tim says he'll be in town for RSA and let's do interview..."

Sooner or later we'll have to find new people to take over her columns, but it's not going to be the same.

Some folks on The WELL are working on a Web page for Kathleen, which will include the columns she did for us, as well as other work, including an article she did some years back for *Whole Earth Review* containing practical advice on finding rental housing when you're a pet owner. When it's up, we'll be sure to inform our readers of the URL.

It won't be the same as logging on every morning to see what Casey's got to say for herself today, but it will be good.

—*ME*

Our regular Contributors page will return next month.

Kathleen's Dog Needs Home

Left behind by Kathleen's passing is her constant and well-loved companion Annie (aka C & L's Kali Annie O'Reilly), a six-year-old Akita.

Annie is big, strong, smart, and affectionate. She is presently being cared for by friends of Kathleen's and is well and content. However, an ideal situation for her would be as an only pet of an Akita-savvy person who could spend lots of time with her; a large fenced yard is also highly desirable. A Bay Area location that would allow us humans in her extended family to visit would be a major plus.

If you'd be interested in adopting Annie, please contact Linda Wroth of Akita Rescue at (510)233-2135, or send her email at *lwroth@netcom.com* .

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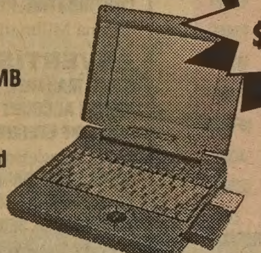

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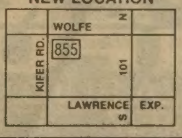

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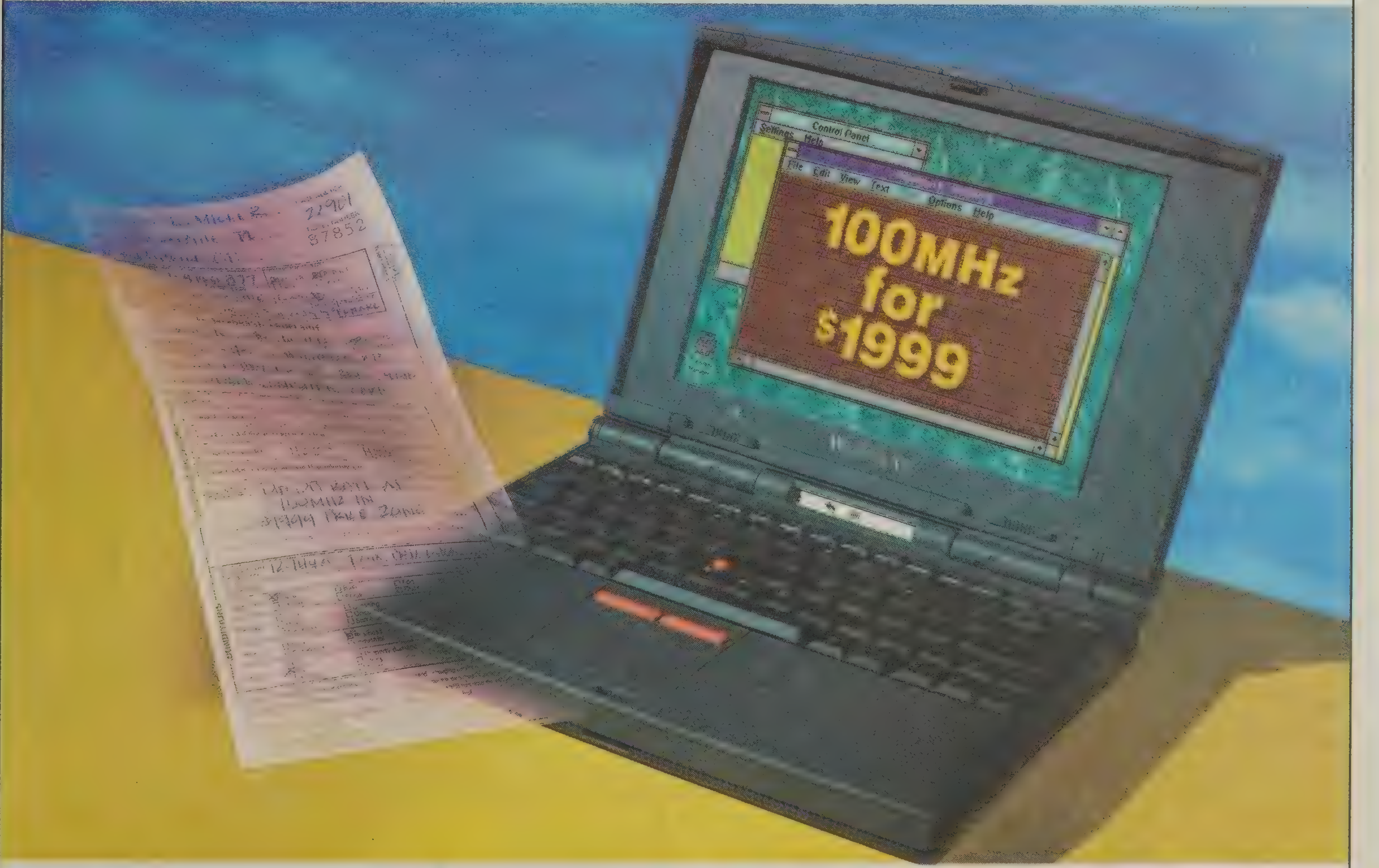

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NOVEMBER 1994

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News and Views

BY PAUL HOFFMAN

Industry Insight

Intel/AMD Truce; Internet Security Flap

AMD And Intel Settle All Outstanding Lawsuits

The long-standing legal battle between Advanced Micro Devices and Intel is over, for now. Early last month, the two companies agreed to drop all lawsuits that they had filed against each other and start with a clean slate. Companies that buy chips from AMD can now breathe easier, knowing that their supply won't be cut off by a court.

For users, this means that 386 and 486 computers will drop in price and increase in availability as AMD spends more of its time on manufacturing and less on defending itself. It's also good news for users of Intel systems because AMD countered most of Intel's lawsuits with its own. Basically, the top management for both companies lost tens of thousands of hours dealing with lawyers instead of moving their companies forward.

> To spoil the not-so-exciting ending: the Internet is no less safe now than it was a few months ago.

Many things led to the settlement, including a string of legal defeats for Intel, culminating with a stinging loss from the California Supreme Court over Intel's contesting an arbitration ruling. That ruling gave AMD the right to make the 386 under its original contract with Intel. That case was based on Intel and AMD agreeing to let a mutually chosen arbitrator decide an early dispute, and Intel then rejecting the arbitrator's decision. Intel had also lost cases where it tried to prevent other companies from making 386 and 486 clones by backing out of previous agreements with its chip-manufacturing partners.

Most analysts feel that the settlement will help AMD much more than it will help Intel, but that might be simply because Intel is so much larger than AMD that no settlement could have had a strong positive effect on Intel's bottom line. The financial portion of the settlement has AMD paying Intel $58 million for improper use of Intel's ICE (in-circuit emulator) code in AMD's recent 486 chips and Intel paying AMD the $18 million that the arbitrator assigned years ago.

The net loss of $40 million to AMD may seem large, but settling the suit could save AMD that much in just one year's worth of lawyers' fees. Giving AMD a clear, royalty-free license to make and sell CPUs (as long as they don't use Intel's ICE code) lets many computer manufacturers feel better about ordering from AMD, which will probably boost sales significantly. Given that Intel has all but abandoned the 486 market to AMD and Cyrix, and that AMD is expected to release its Pentium-class processor this year, the settlement leaves AMD in a great position with its primary customers.

The settlement also states that neither company will sue the other for actions that took place before January 6 of this year. That means that neither side can pull a new patent out of its hat and sue the other company for possibly infringing on the patent before the settlement. Of course, what happens after January 6 is fertile ground for the now-idle lawyers for both companies.

Intel protects its CPUs with many patents, some of which it licenses to competitors in the CPU market. It is widely expected that Intel will try to stop AMD, Cyrix, and others from making Pentium-class processors if those processors contain methods for which Intel has new patents. However, companies like AMD have not been idle on the patent front, and have been getting their own patents, the rights to which they hope to trade with Intel in case of future lawsuits. Intel's lawyers are probably already studying AMD's K5 processor and Cyrix's M1 processor with an eye to keeping themselves employed in the future.

Compared to Intel's humiliating PR debacle with the Pentium bug over the last few months, the legal settlement was probably only a small defeat. Intel is budgeting half a billion dollars to cover the replacement costs for the flawed Pentiums, but it might have lost an equal amount in good will and positive product recognition due to its initial mishandling of user complaints. Put next to numbers like that, the losses from the AMD settlement seem paltry.

Internet Insecurity In The News

It's clear that the mainstream press doesn't know what to do about the Internet. They vacillate between articles about how bright the future on the Information Superhighway will be and articles about how insecure the Internet is and therefore businesses won't touch it with a ten-foot pole. They seem to be equally unclear on both issues.

Last month, the big furor was about a "new" security hole in the Internet that let hackers and vandals break into systems on the Internet. Articles appeared in daily newspapers about a recent rash of break-ins based on a "recently discovered" method for getting around the Internet's security. Unfortunately, the articles were just plain wrong on many counts.

To spoil the not-so-exciting ending: The Internet is no less safe now than it was a few months ago. Hackers used methods that have been known for years to break into sites, then made it known that they know how to do it. A recent break-in was publicized by a government security agency, and the press assumed that it was a new method, even though the announcement specifically said that it wasn't.

In fact, the recent break-ins used two unrelated methods to gain access to machines. The initial entry is made using a technique called "IP spoofing." Using this method, a hacker or vandal can get as much access to files and programs as any user on the system. If the system is set up with little regard for security, the hacker or vandal can even gain complete control of the system.

The press accounts about the recent break-ins usually mentioned IP spoofing as if it were a new technique, when in fact it is well known in the Internet security field and has been described in technical papers and books for at least five years. Further, the media missed the big story on IP spoofing: It is easily prevented. A system that is broken into by someone using IP spoofing is simply a system with inadequate security that can be easily corrected.

IP spoofing is a method of sending a message to a computer that the computer's operating system thinks comes from a trusted computer, when in fact it comes from an adversary. Basically, the person breaking in creates a message, part of which says "I'm from a trusted computer," and requests access to the target computer. If the attacked computer is set up to allow access to other computers based on the supposed address of those computers, hackers or vandals can break in. You might have already guessed the best way to avoid the problem: don't allow access based on the supposed addresses, given how easily they can be faked.

There are additional, commonly used methods to prevent this kind of break-in. Assume that you have computers that need to allow the kind of access that is based on address, but all the trusted computers are

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MicroTimes Index Begins '95 In Bullish Fashion

EXCH	COMPANY	TICKER SYMBOL	CLOSING PRICE 01/18/95	CLOSING PRICE 02/16/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL DIVIDEND RATE	ANNUAL DIVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE										
OTC	Adobe	ADBE	32.31	34.50	2.19	6.77	138	0.20	0.58	38.50	21.50
OTC	Autodesk	ACAD	37.50	36.00	-1.50	-4.00	27	0.24	0.67	41.50	23.25
OTC	Borland	BORL	7.75	7.63	-0.13	-1.61	-	0.00	0.00	15.13	6.00
OTC	Informix (H)	IFMX	33.00	36.50	3.50	10.61	37	0.00	0.00	38.75	14.25
OTC	Lotus	LOTS	43.00	46.75	3.75	8.72	-	0.00	0.00	86.50	29.75
OTC	Microsoft (H)	MSFT	65.06	60.88	-4.19	-6.44	29	0.00	0.00	65.25	39.13
OTC	Novell	NOVL	17.88	20.06	2.19	12.24	33	0.00	0.00	26.63	13.38
OTC	Oracle	ORCL	43.25	46.13	2.88	6.65	40	0.00	0.00	46.50	26.25
OTC	Software Publishing	SPCO	5.00	4.25	-0.75	-15.00	-	0.00	0.00	7.63	3.00
OTC	Symantec (H)	SYMC	20.38	21.13	0.75	3.68	29	0.00	0.00	21.50	9.88
	HARDWARE										
OTC	Apple	AAPL	45.63	43.19	-2.44	-5.34	11	0.48	1.11	48.06	24.63
OTC	AST Research	ASTA	15.19	15.38	0.19	1.23	-	0.00	0.00	32.75	10.38
NYS	Compaq	CPQ	43.38	37.88	-5.50	-12.68	12	0.00	0.00	44.38	29.50
NYS	Digital Equipment (H)	DEC	36.75	36.13	-0.63	-1.70	-	0.00	0.00	38.75	18.25
OTC	Dell (H)	DELL	46.88	45.25	-1.63	-3.47	19	0.00	0.00	47.75	21.00
NYS	Hewlett-Packard (H)	HWP	106.38	115.88	9.50	8.93	17	1.20	1.04	116.00	71.88
NYS	IBM (H)	IBM	77.25	75.50	-1.75	-2.27	15	1.00	1.32	78.00	51.38
NYS	Silicon Graphics (H)	SGI	32.75	35.25	2.50	7.63	31	0.00	0.00	35.38	18.75
OTC	Sun Microsystems	SUNW	34.63	34.13	-0.50	-1.44	13	0.00	0.00	37.63	18.25
NYS	Xerox	XRX	104.13	109.00	4.88	4.68	16	3.00	2.75	112.75	90.63
NYS	Tandy	TAN	50.25	46.00	-4.25	-8.46	18	0.72	1.57	52.38	30.75
	CPU'S										
NYS	Advanced Micro Devices (H)	AMD	32.13	31.13	-1.00	-3.11	10	0.00	0.00	32.25	21.00
OTC	Intel (H)	INTC	69.38	79.88	10.50	15.14	15	0.24	0.30	80.75	56.00
NYS	LSI Logic (H)	LSI	43.25	52.38	9.13	21.10	27	0.00	0.00	52.88	16.75
NYS	Motorola (H)	MOT	62.50	64.25	1.75	2.80	24	0.40	0.62	64.75	42.13
	COMMUNICATIONS										
NYS	AT&T	T	49.00	51.38	2.38	4.85	16	1.32	2.57	57.13	47.25
NYS	BellSouth Corp.	BLS	54.88	58.50	3.63	6.61	13	2.76	4.72	63.50	50.50
OTC	MCI	MCIC	18.94	19.75	0.81	4.29	15	0.10	0.51	27.75	17.25
NYS	Northern Telecom	NT	34.00	35.00	1.00	2.94	22	0.36	1.03	37.75	26.00
NYS	Pacific Telesis	PAC	29.25	30.13	0.88	2.99	11	2.18	7.24	33.38	28.00

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES....................	18
DECLINES.....................	12
UNCHANGED................	0
NEW HIGHS...................	12
NEW LOWS...................	0

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER..................	Intel....................................	$ 10.50
LARGEST DOLLAR LOSER......................	Compaq	$ -5.50
LARGEST PERCENTAGE GAINER...........	LSI Logic..............................	21.10 %
LARGEST PERCENTAGE LOSER............	Software Publishing............	-15.00 %

	CLOSE 01/18/95	CLOSE 02/16/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	5832.57	5961.54	128.97	2.21
DOW JONES INDUSTRIAL AVERAGE	3928.98	3987.52	58.54	1.49
STANDARD & POOR'S 500 INDEX	469.72	485.22	15.50	3.30
N.Y.S.E. COMPOSITE	255.97	263.27	7.30	2.85
NASDAQ COMPOSITE	772.38	793.31	20.93	2.71

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
06/24/94	4238.94	3636.94
07/22/94	4577.29	3735.04
08/19/94	5070.19	3755.11
09/16/94	5323.66	3933.35
10/27/94	5478.47	3875.15
12/16/94	5370.37	3807.19
01/18/95	5832.57	3928.98
02/16/95	5961.54	3987.52

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MicroTimes Index Continues To Grow In 1995

After a stellar increase of 8.61% in January, the MicroTimes Stock Index advanced another 2.21%, closing at 5961.54, up 128.97 points. Within the index, there were 18 advances and 12 declines. New highs totaled 12, compared to 11 last month, while new lows posted a fat 0.

In comparison, the Dow Jones Industrial Average set a new all-time high, closing at 3987.52, up 58.54 points, or 1.49%, from the previous month. On Wednesday, February 15, the inter-day high was 3997.95, just 2.05 points from the 4000 mark.

Turning to stocks in the MicroTimes Stock Index: Intel's stock continued to enjoy superior growth as expectations became increasingly positive. The company's share price climbed $10.50 to close at $79.88, up 15.14%. Based on better-than-expected gross margins and increasing demand for the Pentium and 486 microprocessors,earnings estimates have been raised by S.G. Warburg & Co. from $7.00 to $7.30 a share. Prudential's Mark Edelstone also lifted earnings expectations to $7.05 a share from $6.50, expecting more microprocessors to be sold as components rather than as motherboards.

LSI Logic, rated by Merrill Lynch & Co. as an intermediate and long-term "above average" stock, emerged as last month's largest percentage gainer, vaulting 21.10% to close at $52.38, up $9.13 a hare. LSI shelved privatization plans for its Canada unit based on differences of opinion regarding the value of LSI Canada shares. LSI, which already owns 55% of the Canada unit, offered to acquire the remaining 11 million shares at $3.30 each.

Compaq Computer Corp. performed poorly last month despite the positive direction the company has been traveling over the past year. For the month, Compaq stock unloaded $5.50 a share, closing at $37.88, down 12.68%. Reported net income for 1994 was a healthy $243 million, or 90 cents per share, compared to $151 million a year ago, or 58 cents a share. However, those numbers were below Wall Street's expectations of 94 cents a share, and the company's earnings are anticipated to be below expectations again for the first quarter of 1995.

Software Publishing suffered a reduction in price this past month, closing at $4.25, down 75 cents a share. The software maker's revenues for the first quarter of 1995 reported a 45% downswing from $22.7 million last year to $12.4 million. The revenue dip has been attributed to the diminishing business of DOS.

continued on page 32

REALIZABLE FANTASIES • BY JIM WARREN

Rutting The Nation's Information Roadways

Government—The Biggest Obstacle To Secure Online Commerce And Data Exchange

This concerns a *much*-needed, invaluable, *realizable* "fantasy" that we *don't* have—*only* because of the arrogance of myopic, self-serving government officials.

A Clear And Present Danger

Let's say your phone conversations *might* be equally divided between (a) exciting and erotic intimate conversations; (b) sensitive financial information and access-numbers; (c) invaluable business, corporate, and industrial secrets; and (d) crucial political strategy discussions.

Would industrial spies, wire-fraud thieves, domestic and foreign surveillance experts, and nosey phone phreaques have incentive to crack the public phone system and eavesdrop? *You betcha!*

Or—perhaps all of this most-sensitive, most-valuable, most-exciting content *might* be in email messages, or digital files on your computer, that—of course!—is connected to the global Internet. Would crackers be likely to target you, and use all possible resources to crack your systems and access that material? *Sure!*

For instance, that's exactly what happened, around last December, with highly sensitive files about computer-network security mechanisms and cellular-system protection plans, stored in the computer files of international security expert Tsutomu Shimomura—on his networked computers at the San Diego Supercomputer Center and at his home. The systems were cracked, and many megabytes of his stolen files have now appeared at various open sites around the global nets.

Straightforward, economical security for US citizens, businesses, and financial transactions is not standardized, nor convenient to use *exclusively* because US spies and US officials blindly oppose its national standardization and prohibit its export—all because it will complicate their ability to conduct covert surveillance and wiretaps.

Such dangers are well-proven, continuous, ongoing, real-world threats—personal, financial, corporate, and political. There are unending, high-profile horror stories about vile computer crackers and evil phone phreaques, widely publicized with the help of law-enforcement officials, by unquestioning reporters and newscasters—especially during sweeps weeks.

Hundreds of millions, perhaps billions of dollars' worth of information, software, and services have been and are being stolen by such spies and computer crackers.

Mischievous crackers enter and deposit flamboyant evidence that they were prowling through the most sensitive of personal, financial, business, government, and military files. Malicious crackers ferret out the most crucial files and trash them, or crash entire systems in the most damaging ways possible. And malevolent crackers quietly leave no trace, but instead, copy and steal as much as they can, for as long as they can, of the most valuable files they can identify, use, or sell.

And additional billions of dollars, and unending time and talent, are spent trying to patch-quilt the insecure global Internet—with its infinitely valuable openness—so that in-the-clear communications and plain-text files can somehow remain secure, among its three-million-or-so host computers around the world.

Simple Solution Is Available

Now, let's add one more characteristic to your telephone conversations: What if everyone knew that all of your conversations were conducted entirely in an exotic language, known only to you and those with whom you converse. Would those same spies and crackers still invest time and effort—and risk prosecution and imprisonment—to crack your phone system, so they could listen to unintelligible gibberish?

Not very likely.

Or, what would happen to your computerized secrets—and Shimomura's files—if it was customary and standardized for every computer system and every data-communications link to routinely, systematically, and automatically encrypt all files every time they were stored, and all messages every time they were initially created—

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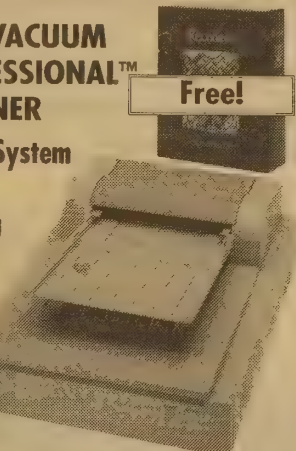

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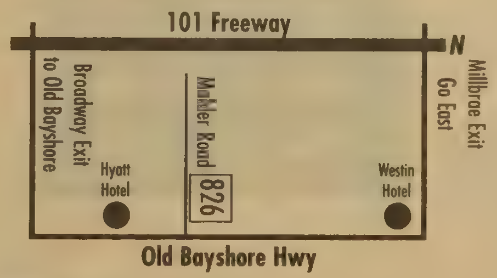

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Fantasies *continued...*

end-to-end scrambling?

Would crackers and spies try to crack the systems?

They would if the files *might* be valuable and the encryption standard was relatively weak. Like the elderly 56-bit-key DES, which was publicly proven to be crackable months before the federal government nonetheless adopted it as a standard. Or the newer, still-crackable, too-wimpy RC-4 crypto that is about the only public-key system the feds will permit to be exported—thus the only one being included in some software products produced for a global marketplace.

But what's *needed* is a nationally adopted, standardized, *really* secure, convenient-to-use—i.e., public-key—encryption system built into all file systems and datacomm software, using the techniques that have been known and published, worldwide, for more than a decade.

And, if it's to be used in a nation that participates in world affairs and communications, then, obviously, it must also be exportable—at the *least*, for use by US citizens and corporations wishing to maintain thus-standardized security of their files and communications beyond the nation's borders.

If all files and communications were thus *routinely* and *systematically* protected with *maximum*-strength public-key crypto, would industrial and political spies and curious crackers be eager to gain access to your files and communications that would remain undecipherable gibberish?

Nope!—you'd finally be safe.

All of us *could* have such standardized protection included in our computer file systems, used throughout our global data communications and digitized voice communications.

Such technology is known and published throughout the world. Products and freeware that provide it are available around the globe. Entrepreneurs in former Eastern Bloc countries have implemented it and legally offer it for sale worldwide—while US software publishers are prohibited from so doing.

No danger is too great nor too costly for this nation's citizens, financial transactions, and businesses—when balanced against government's desire to conveniently snoop and peep.

continued on page 30

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PC Magazine (UK), December 1994. Reprinted with kind permission of Ziff-Davis UK Limited.

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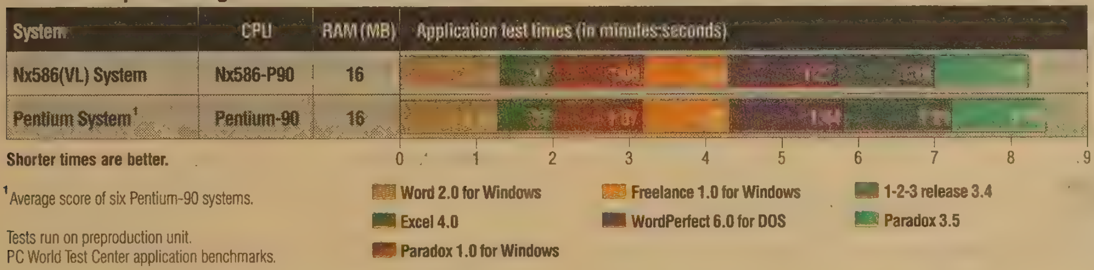
NexGen Chip Challenges Pentium Performance

PC WORLD, November 1994



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[1] Average score of six Pentium-90 systems.

Tests run on preproduction unit.
PC World Test Center application benchmarks.

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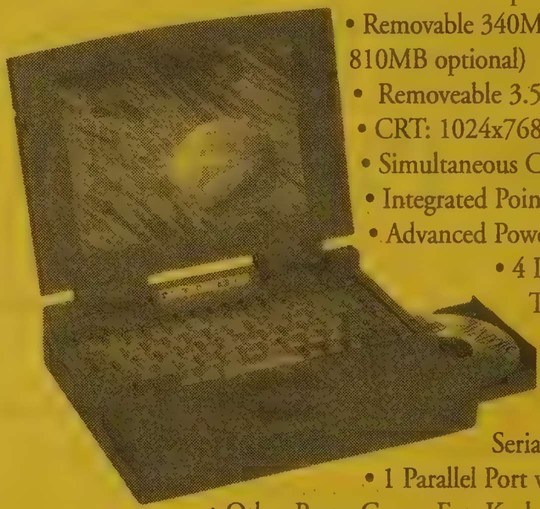

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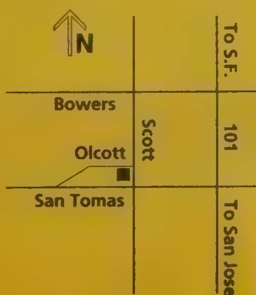

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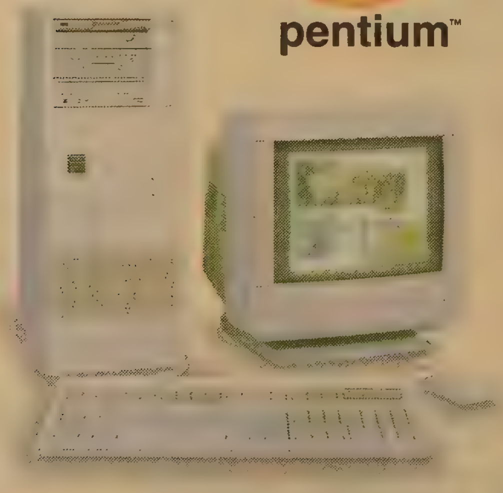

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We have reached

the crossroads of the Information Age.

No longer is the electronic frontier inhabited solely by a small band of technical pioneers sharing a common code of conduct. Computer and telecommunications technologies have become part of mainstream living, conversation, and politics. We have a much larger, more global, and more diverse population using these new technologies. And these technologies are being applied to a much broader set of problems touching the lives of a far greater proportion of the population. As a result, new freedom and privacy questions have arisen while many previous questions have become even more complex and significant.

These changes compel us to reexamine the definition of our rights and the processes by which those rights are being defined.

The broader use of computer and telecommunications technologies holds great promise for individuals and society. These technologies, applied on a larger and wider scale, can fundamentally transform our lives, bringing new meanings to our freedoms to speak, associate, be left alone, learn, and exercise political power.

At the same time larger and wider scale use of these technologies poses threats to the ideals of a just, free, and open society. Personal privacy is increasingly at risk from invasion by high-tech surveillance and eavesdropping. The expanding number of myriad databases containing personal information maintained in the public and private sectors expose private life to constant scrutiny. More than ever before, political, social, and economic fairness may hinge on ensuring equal access to these technologies, but how, at what cost, and who will pay?

The more frequent and far-reaching incidences of illegal activity based on computer and telecommunications technologies create new problems for legal and law enforcement officials, and challenge the very definitions of crime and civil liberties. But the more prevalent use of new technologies to combat these crimes can threaten the traditional barriers between the individual and the state.

Even such fundamental notions as speech, assembly, and property are being transformed, throwing into question the basic Constitutional protections that have guarded them. Similarly, information knows no borders; with today's global economy and rapidly growing networked communities functioning across international boundaries, ways must be found to reconcile competing political, social, and economic interests in the digital domain.

The Fifth Conference on Computers, Freedom and Privacy will assemble experts, advocates, and interested people from a broad spectrum of disciplines and backgrounds in a balanced public forum to explore and better understand the definition of our rights at this crossroads of the Information Age. Participants will include people from the fields of computer science, law, business, research, information, library science, health, public policy, government, law enforcement, public advocacy, and many others.

Registration is limited: CFP'95 registration will be limited to 550 attendees, so we advise you to register as early as possible.

TUTORIALS

Stanford Law School has been approved as a continuing legal education provider of Minimum Continuing Legal Education by the State Bar of California. Each indicated tutorial will qualify for Minimum Continuing Legal Education credit by the State Bar of California in the amount of three hours. Stanford Law School certifies that this activity conforms to the standards for approved education activities prescribed by the rules and regulations of the State Bar of California governing minimum continuing legal education.

Tuesday, March 28

9:00 am– Noon

The Law of Fundamental Rights for Non-Lawyers (MCLE Credit)

-Mike Godwin, Staff Counsel, Electronic Frontier Foundation

This tutorial presents an outline of the law for non-lawyers dealing with Constitutional issues that confront those concerned with freedom and privacy in the Information Age. Recent cases, legislative proposals, and government activities will be summarized.

Inside Washington: The New Congress and Secrets of Advocacy

-Marc Rotenberg, Electronic Privacy Information Center
-David Banisar, Electronic Privacy Information Center
-Chris Casey, Office of Senator Edward M. Kennedy

An inside look at key Congressional committees and the movers and shakers determining national communications and information policies. The tutorial will then explore some of the tricks for getting heard in Washington, including "Hardballs and Curve Balls: What Press Spin Is Not," "Digital Astroturf and Smoke-Filled Rooms: Advocating in Cyberspace," and "Would You Read Constituent Mail?"

National ID Card Initiatives

-Mitch Ratcliffe, Editor-in-Chief, Digital Media

Should every citizen carry a national ID

CFP Preview *continued...*

card? On the one hand, national ID cards constitute a very serious threat to personal privacy. On the other, it's going to be impossible to automate government service and transactions in general without some form of identification which serves as an interface to networks.

This tutorial will review the history, details, and status of proposals for a national identification card for every American, and then will explore the conflicting ethical issues swirling around the use of these cards.

The CFP Game Room

-Russell Brand, Senior Computer Scientist, Reasoning Systems, and friends

Come discover the meaning of some of the terminology used at the conference and in the press, but in an informal, playful setting. Russell Brand and friends will be your guide in this den of iniquity filled with anonymous remailers, digital personas, threats to your security, and other questionable activities. The morning session will stress technology games.

2:00–5:00 pm

Intellectual Property for the Information Age (MCLE Credit)

-Lance Rose, Attorney and Author of Syslaw

Recent assertions of intellectual property rights—particularly copyrights, patents, trademarks—in the computer and telecommunications industries have occupied the headlines and generated widespread controversy about whether these rights are improperly throttling individual freedoms.

Intelligent discussion of the issues requires an understanding of these rights. This tutorial examines the scope and nature of intellectual property protection under current law and how this protection has been applied recently in connection with computer and telecommunications technologies.

Everything You Need to Know to Argue About Cryptography

-Matt Blaze, AT&T Bell Laboratories

This tutorial will give an overview of cryptography and its relationship to privacy in modern communications networks. Topics will include: a brief history of secret writing, conventional cryptosystems, public key cryptography, applications of cryptography, threats and risks, and the technical aspects of the cryptography public policy debate.

Inside the World of Law Enforcement

-Kent Walker, Assistant United States Attorney, U.S. Department of Justice and cofounder, Silicon Valley High-Technology Crime Task Force

What kinds of high-tech crime do the police investigate? How do they hear about it? How do prosecutors and agents investigate it? What are the limits on their ability to gather information? And in what new directions are they heading?

This tutorial will discuss these questions, and give you a chance to ask about specific law enforcement priorities or practices that concern you.

Digital Activism

-David Smith, President, Austin, Texas Electronic Frontier Foundation

This tutorial will focus on the methodology of activism, the nuts and bolts. The tutorial has been designed to push the envelope of

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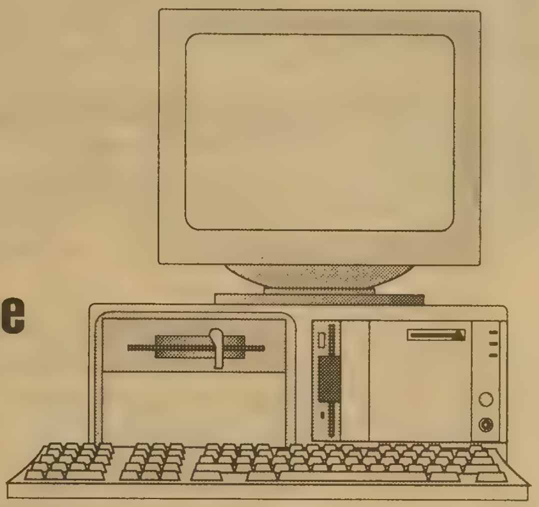

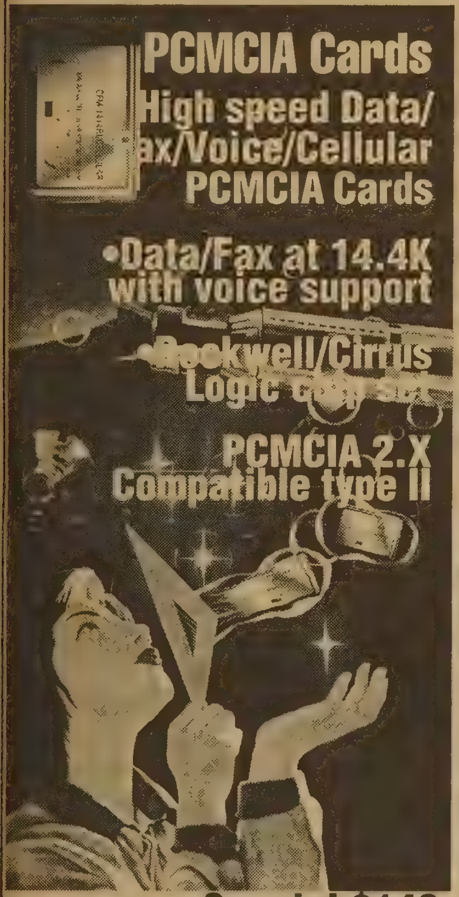

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the operation side of activism: outlining tools, strategies, and resources. Information provided will cover the entire scale (individual to organization) and scope (local, national, international) of online activism.

The CFP Game Room

-Russell Brand, Senior Computer Scientist, Reasoning Systems, and friends

Second offering of the morning session. The afternoon session will stress policy games.

MAIN PROGRAM SESSIONS

Wednesday, March 29

8:45 AM

Welcome, Introduction

9:00 AM

Keynote Address: John P. Morgridge, Cisco Systems

10:30 AM

Student Databases: For Education and for Life?

Chair - Janeane Dubuar, Public Interest Activist

The U.S. education system is rapidly building a nationwide network of electronic student records. This panel will introduce the issue of privacy and K-12 education records and explain how increased computerization and networking of school records, coupled with current education reform trends, are leading us toward an unprecedented invasion of individual privacy.

1:30 PM

Intelligent Transportation Systems: Paving Over Privacy?

Chair - Christine Harbs, Privacy Rights Clearinghouse

A myriad of tracking and surveillance technologies is being applied to vehicles and roadways nationwide. Intelligent Transportation Systems (ITS) may speed travel, prevent accidents, reduce the need for new roads, and help lower pollution. But ITS could have a dark side when it comes to privacy. This session will explore ITS, how they may threaten your privacy rights and what can be done to minimize those threats.

3:00 PM

Transaction Records in Interactive Services: Who Watches the Servers?

Chair - Alan Westin, Columbia University

The advent of interactive capabilities in home entertainment, telecommunications, and online services gives new importance to concerns about the privacy of the transaction records generated by these services. This session will explore the issues raised by the collection of personal information in these new interactive services, followed by a debate on the various strategies proposed for protecting the privacy of electronic transaction records.

4:30 PM

The Case Against Computers: A Systemic Critique

Chair - Jerry Mander, Author, Director, The Elmwood Institute

Technological advances are sweeping through our culture like a virulent plague, changing and devastating people's rights and privileges. The freedoms of an individual are slowly being eroded in favor of corporate and technology-driven interests. Similarly, privacy is increasingly seen as a threat to governments and other bureaucratic power bases. The future of our world's resources, human and material, is in jeopardy. Our panel will critique computers from these as well as other perspectives, including effects on health, democracy, knowledge, and consciousness.

Thursday, March 30

9:00 AM

Defining Access Paradigms: Libraries, Rural Areas, and International Aspects

Chair - Peter Harter, The National Public Telecomputing Network

Access to the Internet and computer mediated communications presents different and similar difficulties in different communities. Experts on the three communities of libraries, rural areas, and lesser-developed countries debate the definitions of access needed for new general and specific access paradigms.

10:30 AM

A Net for All: Where Are the Minorities?

Chair - Barbara Simons, USACM

We examine the degree to which minority groups participate on the Net, ways in which they are (inadvertently) excluded, and techniques for increasing their participation. We also discuss characteristics of the Net that encourage broad participation. Finally, we ask to what extent class is relevant to participation or non-participation on the Net.

NOON

Lunch, with Speaker from 12:45–1:15 pm

1:15 PM

His Master's Voice...

Chair - Ross Stapleton-Gray, TeleDiplomacy, Inc.

Early online activists have sought—and achieved—victories in getting political information, such as bills and reports, opened up for public access. But no good deed goes unpunished: the same media that expose government to the sunshine will be useful to disseminate political messages of all stripes. What is the future for "Net propaganda," and who will pay so whose message will get to whom?

3:00 PM

Freedom and Responsibility of Electronic Speech - Part I

Chair - Virginia Rezmierski, University of Michigan

Computer-mediated communication systems offer a powerful new medium for the free expression of ideas. At the same time, the growing popularity of these online systems presents interesting challenges to traditional concepts of the rights and responsibilities of free speech. In the first of two sessions on this topic, we will look at several recent controversies involving online speech, and the issues that they raise.

4:30 PM

Freedom and Responsibility of Electronic Speech - Part II

Moderator - Kim Taylor-Thompson, Stanford Law School

While courts and legislatures have had two centuries of experience interpreting the Bill of Rights, its application to online communication has yet to be seriously tested. In the second of two sessions, we will explore the issues raised in the previous session in a Socratic forum and ask whether the Constitution can indeed be viewed through a technologically transparent lens.

Friday 31 March

8:00 AM

Willis Ware: Privacy and Security on the NII

8:30 AM

Can We Talk Long-Distance? Removing Impediments to Secure International Communications

Chair - Michael Froomkin, University of Miami School of Law

While strong cryptography is freely available within the US, it is not often exportable. Other nations restrict the importation and/or use of strong cryptography for communications. Even when systems are available and usable in two countries, they are not necessarily compatible. The panel will consider existing technical and policy impediments to secure international communications. After an initial round of reactions from the panel, audience participation will be encouraged.

10:30 AM

Can the Net Survive Copyright? Can Copyright Survive the Net?

Chair - Lance Rose, Attorney and Author of Syslaw

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CFP Preview *continued...*

The world's largest companies are thundering into cyberspace and pursuing infringements everywhere, raising the stakes on information freedom. A proper balance must be reached between the competing needs of information usage and information control. Since copying and distributing information are central to all Net activities, the question of copyrights online will be critical in shaping how much freedom we really have.

1:15 PM

"It Oughta Be a Crime..."

Chair - Kent Walker, U.S. Department of Justice

Hacking. Cracking. Piracy. Obscenity. Anonymous Threats. Impersonations. Spamming. Cancelbots. Netiquette Breaches. When should bad manners become a crime? Who should set the rules for governing the Net? Hear law enforcement's views, and share a few of your own.

2:45 PM

Who Owns the Law? The Debate Over Legal Citation Form and What It Means

Chair - Glenn Tenney, Fantasia Systems Inc.

Opinions issued by courts are in the public domain. Although anyone can publish or distribute the opinions, they are only worthwhile if they include the page numbers that can be used in a citation. And there's the rub —the required page numbers are copyrighted by the original publisher. Do we truly have access to our own laws when the required citation points only to a copyrighted page number? Has electronic publishing made page number references obsolete, and if so, what should take their place and who will own this new citation scheme?

4:15 PM

When Do They Need to Know "Whodunnit"? Discovering the Right Times and Places for Identified, Anonymous, and Pseudonymous Transactions

Chair - Roger Clarke, Australian National University

Organizations assume that the people who conduct transactions with them should identify themselves. But as databases become ever more extensive and interconnected, people have an ever greater interest in denying or obscuring knowledge about who they are. Do ways exist to protect the interests of corporations and government agencies on the one hand, and individuals on the other?

5:30 PM

Where Do Things Go From Here?

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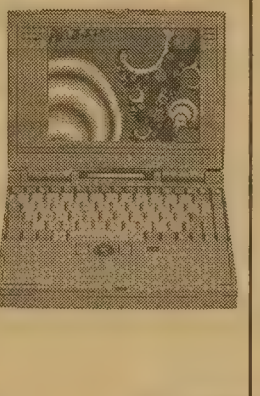

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- **16-Bit Stereo Sound**, 2 Stereo Speakers & Microphone **(Record, compress, store and playback voice, sound & music to disk.)** Sound Blaster & Windows Sound System compatible
- **32-bit VESA Local Bus Video with Windows Accelerator**, 1MB VRAM
- **32-bit Intel Local Bus IDE** (increase transfer rate by 45%)
- **Removable Hard Drive** 250MB (340, 540, 810 Optional)
- **8MB RAM** (User upgradable to 16,24,**40MB**)
- **PCMCIA** one **Type III** & one **Type II**
- 1.44 MB Floppy Drive
- 10.3" Dual Scan/Active Color Display (supports 1024x768 256 colors on ext. Monitor)
- Extra large Built-in 25mm front-center Trackball
- **46 Watt** High Capacity **NiMH Battery**, Quick Charge 2 hr
- Ports for high-speed serial, enhanced parallel, keyboard, monitor & **VLB Docking Station**
- Deluxe Carrying Case & AC adapter

8MB RAM Included

Dual Scan Color 60/66MHz	**$2450/2500**
Active Color 60/66MHz	**$3150/3200**

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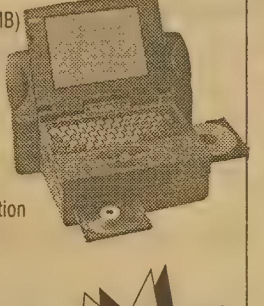
PCMCIA 14.4 Fax/Modem w/5yr. Warranty	$145
Notebooks	Starting At $989

6 1/2 Hour Battery, 256K to 1MB Cache, Optional Int. CD-ROM & TV Tuner!

Model 9500

6 1/2 Hour Battery Life

- Intel 486SX-33 MHz CPU (**DX2-66, DX4-75/100** optional)
- **256K Cache** (512K, 1MB optional)
- **16-bit Stereo Sound,** 2 Stereo Speakers, Microphone, amplifier
- **32-bit VESA Local Bus Video,** 1MB VRAM w/Win Accelerator
- **32-bit Local Bus IDE** (increases transfer rate by 45%)
- 4MB RAM (expandable with standard 72-pin DIMMs up to 64MB)
- **Removable 340MB** hard drive (250, 520 & 810MB optional)
- **10.3"** Dual Scan or 9.5" Mono & Active Matrix Color
- **4 PCMCIA** Type II or 2 Type III Slots (maximum)
- **"Trackpoint"** pointing device
- **NiMH** battery (2nd & 3rd Battery optional)
- **2 High speed Serial ports,** 1 Enhanced Parallel Port
- Ports for **Joystick**, ext. Keyboard & Monitor, FDD, Docking Station
- Advanced Power Management
- Carrying Case & AC adapter
- Weight: 7.5lbs



Options: Philips 5.25" Double Speed CD-ROM Drive Module, 3.5" Hard Drive Module, TV Tuner Module, Docking Stations, & Numeric Keypad

Mono 64 GS	**CALL**
Dual Scan Color	**CALL**
Active Color	**CALL**

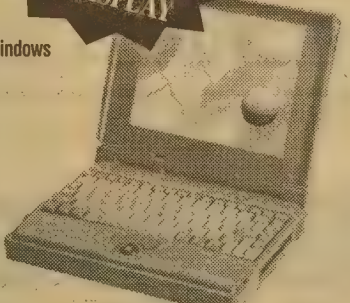
Optional Internal CD-ROM Drive

(Call for upgrades to DX2-66 and DX4-75/100MHz)

Model 9400

DUAL BATTERY 10.3" DISPLAY

- Intel 486DX-33 MHz CPU (Upgradable to **DX2-66, DX4-75/100**)
- **128K Cache**
- Built-in **Audio, MIC, Speaker, Sound Blaster & Windows compatible**
- 10.3" Display
- **32-bit VESA Local Bus Video**
- **1MB Video RAM** with **Win Accelerator**
- **PCMCIA III & II**
- 4MB RAM (exp. to 8/12/16/20/36MB)
- 1.44MB Floppy Drive
- **Removable 250MB** Hard Drive (340MB/540/810MB Optional)
- Built-in **front-center 25mm Trackball**
- **2 NiMH batteries**, Quick Charge 2hrs. (w/ hot swap)
- Ports for serial, parallel, external, monitor, keyboard/mouse & VLB Docking Station
- Carrying Case, AC Adapter
- Weight **6.6lbs**

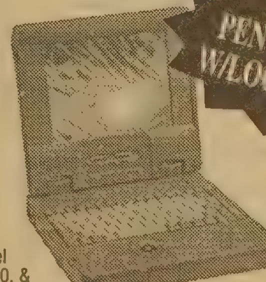


Mono 64GS *ON SALE*	~~$1845~~	**$1480**
Dual Scan	~~$2335~~	**$1915**
Active Color	~~$3315~~	**$2675**

Model 7500/7600

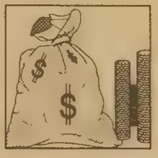
NEW PENTIUM 90 W/LOCAL BUS

- **Model 7500** Processor: Intel 486DX-33MHz (upgradable to DX2-66, DX4-100)
- **Model 7600** Processor: Intel Pentium 90MHz
- 256K Cache (7600 Only)
- Built-in Audio, **MIC, Speaker, Sound Blaster & Windows compatible**
- **32-bit VESA Local Bus Video & IDE**
- **1MB Video RAM** with **Win Accelerator**
- **PCMCIA III** or 2 IIs
- **RAM for 7500: 4MB Exp. to 8/12/20/36**
- **RAM for 7600: 8MB Exp. to 16/24/40**
- 1.44MB Floppy Drive
- Removable Hard Drive, 170MB standard for Model 7500, 260MB Standard for Model 7600, (340, 540, & 810MB Optional)
- Built-in **front-center 19mm Trackball**
- **NiMH battery**, Quick Charge 2 hrs.
- Carrying Case, AC Adapter
- Weight **6.2lbs**



	7500	7600
Mono 64GS	**$1275**	**N/A**
Dual Scan	**$1755**	**$2895**
Active Color	**$2665**	**$3685**

3 Years Labor & 1 Year Parts Warranty!



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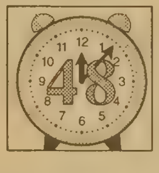

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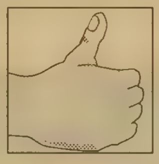

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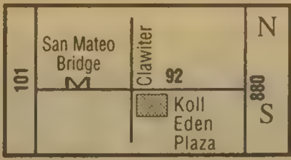

Fantasies

continued from page 18

FBI, NSA Aid And Encourage Criminals

Straightforward, economical security for US citizens, businesses, and financial transactions is not standardized, nor convenient to use *exclusively* because US spies (such as CIA turncoat Aldridge Ames) and US officials blindly oppose its national standardization and prohibit its export—all because it will complicate their ability to conduct covert surveillance and wiretaps.

No danger is too great nor too costly for this nation's citizens, financial transactions, and businesses—when balanced against government's desire to conveniently snoop and peep.

[This perspective contributed by Menlo Park's John Nagle.]

> If all files and communications were *routinely* and *systematically* protected with *maximum*-strength public-key crypto, would industrial and political spies and curious crackers be eager to gain access to your files and communications that would remain undecipherable gibberish?

The Watergate Memorial

Consider this a footnote to the half-a-billion tax dollars that Congress authorized last year for the new, undetectable, listen-from-anywhere, keyboard-controlled Federal Wiretap System—for use by local, state, and federal clerks, agents, and near-omnipotent bureaucrats (e.g., J. Edgar Hoover's replacements) who report to incumbent politicians. And it has *no* independent oversight to deter abuses, although it's technologically trivial to implement.

Appropriately, HR 4922, the legislation that forced US phone companies to implement the Federal Wiretap System, was introduced on the twentieth anniversary—to the day!—of Richard Nixon's resignation, after his staff failed in their efforts to bug his political opponents' national headquarters in Washington's Watergate office complex. ■

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○ Educational ○ Financial ○ Retail ○ Hospital ○ Government ○ Research ○ Other

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My Budget is: ○ $1,000-$5,000 ○ Over $5,000

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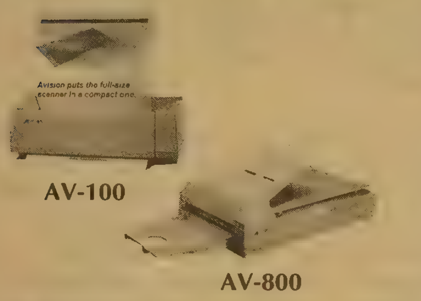

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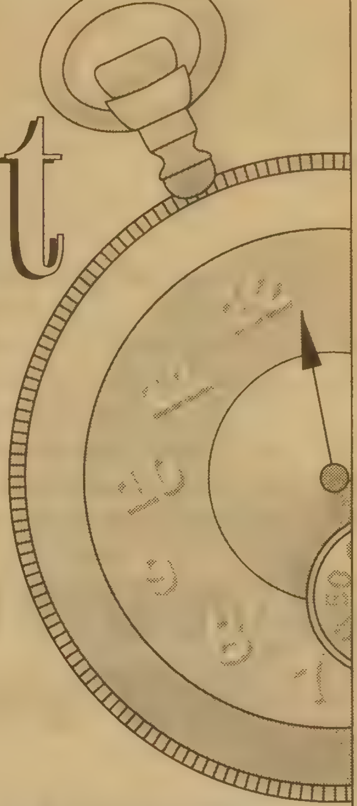

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Industry Insights

continued from page 15

on a local network. Putting a properly configured "firewall" system between that network and the outside world allows the computers on the local network to trust each other's addresses while keeping out intruders who pretend to be trusted. The systems being discussed in the recent news articles were not using properly configured firewalls.

A firewall system watches all the communications coming into and going out of a network and blocks messages that might cause a security problem. In the case of IP spoofing, the firewall can block all incoming messages that have addresses that the firewall knows only exist on the secure network, not out on the Internet at large. Firewalls capable of this kind of security have been around for years and are widely advertised; anyone who is not using one but is still relying on possibly fake addresses is at risk of being broken into.

> If you aren't very clear about what kind of security you have in place, false security can be worse than no security.

Like any security system, a firewall has to be set up properly in order to work. Locking the front door to your house will stop some people, but if you leave the side door open, you are vulnerable to burglars who are only slightly more persistent. Similarly, if you insist on allowing access to your computers based on possibly fake addresses, you have to make sure your firewall is rejecting messages from the outside with those supposed addresses; otherwise, you are just as vulnerable as you were before.

In fact, installing a firewall to prevent IP spoofing and other attacks can be dangerous if you aren't careful about its configuration, because it can give you a false sense of security. This is similar to the people affected by the recent floods here in California who had paid for "flood insurance" and later found out that it only covers damage to the house but not damage to the house's contents. If you aren't very clear about what kind of security you have in place, false security can be worse than no security.

All this is not to say that the Internet is a secure place: it isn't. Indeed, hackers discover new methods for breaking into sites on a regular basis. However, sites that pay much attention to security are usually not at great risk as long as they keep up with current technology and plug holes when they get reported. Internet sites that do not allow access based on supposed addresses and sites with firewalls are not affected by this "new" type of attack.

Internet sites that don't pay much attention to security, and there are tens of thousands of them, are clearly at risk of getting broken into. If you stay in a hotel with a large sign that says "We never lock our doors," you would not be surprised to find your room burglarized. Even if the hotel has a sign that says "We pay attention to security" and you see that the locks on the front doors don't work, you would still expect the same thing. Keeping things locked up on computers that are on the Internet is not difficult.

When someone breaks into an Internet-connected computer, the press should look at the event not as proof that the Internet is inherently unsafe, but as a reminder that there are people out there who like to break into things, possibly for profit. Sites with good, up-to-date security policies will survive just fine on the Internet.■

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Number of Employees
○ 1 to 10 ○ 50 to 100
○ 10 to 50 ○ Over 100

Company Name

Title

What Is Your Purchase Time Frame?
○ 1 Week ○ 3 Weeks
○ 2 Weeks ○ 4 Weeks

Address

Please Rank Your Choice
H=High L=Low
Ⓗ Ⓛ Price Ⓗ Ⓛ Service
Ⓗ Ⓛ Reseller Ⓗ Ⓛ Warranty
Ⓗ Ⓛ Onsite Support
Ⓗ Ⓛ Compatibles
Ⓗ Ⓛ Brand Name

City

State

Zip Code

Area Code Phone Number – –

Area Code Fax Number – –

To Be Used Where ? ○ Business ○ Home ○ Network

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E-mail address (continued)

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○ PC NAME BRAND ○ Network WORKSTATION
○ PC NOTEBOOK ○ Network FILESERVER
○ MACINTOSH NOTEBOOK

PICK YOUR PREFERENCES
○ Name Brand
○ Compatibles
○ No Preference

Step 1: Enter PC System Brand Name & Model #, If Preference

Step 1: Enter NoteBook Brand Name & Model #, If Preference

Quantity / Choices ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ 10 or More ○

My Budget For System Is ○ Under $1000 ○ $1000 to $1999 ○ $2000 to $2999 ○ $3000 to $3999 ○ $4000 to $4999 ○ Over $5000

Call Me For A More Detailed Quote. ○ Quote Me For Selected Upgrade/Peripherals Choices Only. ○

STEP TWO: CONFIGURATION REQUESTS: CPU ○ PENTIUM ○ 486 ○ 386 ○ MAC QUADRA/PERFORMA ○ MACPOWER PC

CPU MHz SPEED:
○ DX4 ○ DX2 ○ DX ○ SX ○ SLC ○ Quadra ○ PowerPC
○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40 ○ 33 ○ 25

BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA

CACHE ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+
○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External ○ 9600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard
○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SOFTWARES NEEDED: ○ DOS ○ OS2 ○ Mac ○ UNIX ○ MS Windows

STEP THREE: MULTIMEDIA UPGRADE ○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal ○ External ○ IDE ○ SCSI

CD ROM TITLES INCLUDED: ○ 1-5 ○ 5-10 ○ 11+

SPEED ○ 2X ○ 3X ○ 4X

○ BRAND NAME ○ No Brand Name Preference

CD ROM Brand Name and Model Number

SOUND CARD ○ 16Bit ○ 32Bit

SPEAKERS ○ Less Than 25W ○ 25 to 50W ○ 50 to 75W ○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4

SCREEN TYPE: ○ Mono ○ Dual Scan Color ○ Active Color

PCMCIA SLOT: ○ Type I ○ Type II ○ Type III ○ Type IV

○ Audio Capable ○ Docking Station
○ Fax Modem ○ Extra Battery

STEP FIVE: NETWORKING NEEDS: ○ Please Contact Me on My Networking Needs Indicated Below
○ Software ○ Hardware ○ Consultation ○ Design ○ Installation ○ Administration ○ MS Workgroups
○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

STEP SIX: UPGRADES and PERIPHERALS. ○ Ink Jet Printer ○ Tape Backup ○ Accelerator
○ Color Printer ○ Dot Matrix Printer ○ Laser Printer ○ Flat Bed Scanner ○ Digitizer ○ Hand Scanner

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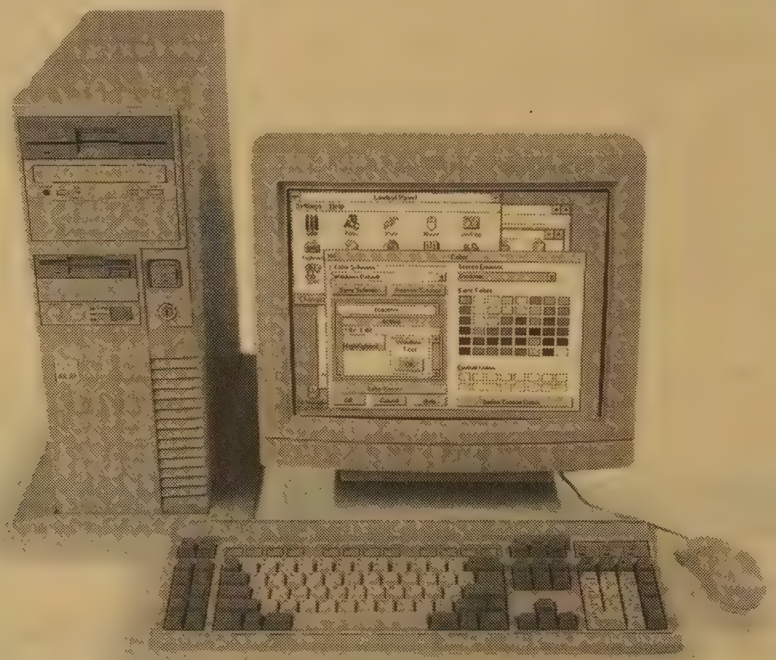

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- **15" Digital Flat Screen NI Monitor, .28**
- 1.44MB Floppy Drive
- 540MB SCSI II HDD
- NCR PCI SCSI II Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mid Tower Case w/250W Power Supply
- 101-key Keytronic Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

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- **Asus Pentium PCI Motherboard**
- **512KB External Cache**
- **8MB 72-pin RAM (Max 128MB)**
- **Diamond Stealth 64 PCI Video Card w/2MB**
- **15" Digital Flat Screen NI Monitor, .28**
- 1.44MB Floppy Drive
- 420MB IDE HDD
- PCI Enhanced IDE Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mid Tower Case w/250W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

60MHz	*$1795*
66MHz	*$1895*
90MHz	*$2095*
100MHz	*$2195*

RED
At Home

- **Intel Pentium Processor**
- **Asus Pentium PCI Motherboard**
- **512KB External Cache**
- **8MB 72-pin RAM (Max 128MB)**
- **Diamond Speed Star 64 PCI Video Card w/1MB**
- **17" Digital Flat Screen NI Monitor, .42**
- 1.44MB Floppy Drive
- 420MB IDE HDD
- PCI Enhanced IDE Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mini Tower Case w/250W Power Supply
- 101-key Enhanced Keyboard
- 16 Bit Sound Card + Speakers
- Double Speed Internal CD ROM
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11
- Microsoft Money
- Microcosm
- Darkseed
- Dark Sun
- SIMM City 2000

60MHz	*$2195*
66MHz	*$2295*
90MHz	*$2495*
100MHz	*$2595*

GREEN
Top of The Line System

- **Intel Pentium Processor**
- **Asus Pentium PCI Motherboard**
- **512KB External Cache**
- **16MB 72-pin RAM (Max 128MB)**
- **Diamond Stealth 64 PCI Video Card w/2MB VRAM**
- **Sony 15sf 15" Flat Screen Monitor, .25**
- **US Robotics 14.4 KB Internal Fax Modem**
- **Teac Quad Speed Internal CD ROM**
- **Sound Blaster Multi-CD Sound Card**
- **Microsoft Natural Keyboard**
- **Microsoft Office Professional 4.3**
- Teac 1.44MB Floppy Drive
- 730MB IDE HDD
- PCI Enhanced IDE Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mid Tower Case w/250W Power Supply
- Microsoft Serial Mouse
- Microsoft Bookshelf
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

60MHz	*$3295*
66MHz	*$3395*
90MHz	*$3595*
100MHz	*$3695*

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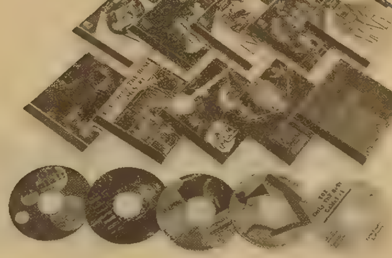

WHITE
Powerstation

- Intel Pentium Processor
- Asus Pentium PCI Motherboard
- 512KB External Cache
- 16MB 72-pin RAM (Max 128MB)
- 1GB Wide SCSI HDD
- ATI Graphics Pro Turbo PCI Video Card w/2MB VRAM
- 17" Digital Impression 1280x1024 NI Flat Screen Monitor .26
- Toshiba Quad Speed Internal SCSI CD-ROM
- Sound Blaster 16 Sound Card
- 1.44MB Floppy Drive
- NCR PCI Wide SCSI Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mid Tower Case w/250W Power Supply
- 101-key Keytronic Keyboard
- 40 Watt Stereo Speakers
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

60MHz **$3655**
66MHz **$3755**
90MHz **$3955**
100MHz **$4055**

ORANGE
CAD Station System

- Intel Pentium Processor
- Asus Pentium PCI Motherboard
- 512KB External Cache
- 16MB 72-pin RAM (Max 128MB)
- 2GB SCSI-II HDD
- Diamond Viper Pro PCI Video Card w/2MB VRAM
- Nokia 447x17" 1600x1280 Monitor .25
- US Robotics 14.4 KB Internal Fax Modem
- Toshiba Quad Speed Internal SCSI CD-ROM
- Adaptec 2940 PCI SCSI Controller
- Microsoft Natural Keyboard
- 1.44MB Floppy Drive
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mid Tower Case w/250W Power Supply
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

60MHz **$4695**
66MHz **$4795**
90MHz **$4995**
100MHz **$5095**

BLUE
Family PC System

- Intel Pentium Processor
- Asus Pentium PCI Motherboard
- 512KB External Cache
- 8MB 72-pin RAM (Max 128MB)
- 1GB Enhanced IDE HDD
- Diamond Stealth 64 PCI Video Card w/2MB
- 15" Digital Flat Screen NI Monitor
- 14.4 KB Internal Fax Modem
- Quad Speed Internal CD-ROM
- 16 Bit Sound Card + Stereo Speakers
- 1.44MB FDD
- PCI Enhanced IDE Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mid Tower Case w/ 250W Power Supply
- 101-key Enhanced Keyboard
- Microsoft Serial Mouse
- Microsoft Encarta 95
- Microsoft Works
- Microsoft Money
- Microsoft Entertainment Pack
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

60MHz **$2555**
66MHz **$2655**
90MHz **$2855**
100MHz **$2955**

PURPLE
Home/Office Best Buy System

- Intel Pentium Processor
- Asus Pentium PCI Motherboard
- 512KB External Cache
- 8MB 72-pin RAM (Max 128MB)
- Diamond Stealth 64 PCI Video Card w/1MB
- 15" Digital Flat Screen NI Monitor
- 14.4 KB Internal Fax Modem
- Teac Quad Internal CD-ROM
- Sound Blaster 16 Sound Card
- Microsoft Office Professional 4.3
- 1.44MB Floppy Drive
- 420MB IDE HDD
- PCI Enhanced IDE Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mid Tower Case w/250W Power Supply
- 101-key Keytronic Keyboard
- Microsoft Serial Mouse
- Microsoft Bookshelf
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.1

60MHz **$2455**
66MHz **$2555**
90MHz **$2755**
100MHz **$2855**

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★★★★★

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★ System of The Month ★

- **Intel Pentium Processor**
- **Asus Pentium PCI Motherboard**
- **512KB External Cache**
- **8MB 72-pin RAM (Max 128MB)**
- **Diamond Stealth 64 PCI Video Card w/1MB**
- **15" Digital Flat Screen NI Monitor, .28**
- **Double Speed Internal CD-ROM**
- **16 Bit Sound Card + Stereo Speakers**
- 1.44MB FDD
- 420MB IDE HDD
- PCI Enhanced IDE Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mini Tower Case w/ 250W Power Supply
- 101-key Enhanced Keyboard
- 3 Button Serial Mouse
- Microsoft Encarta 95
- Microsoft Works
- Microsoft Money
- Microsoft Entertainment Pack
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

60MHz	*$1955*
66MHz	*$2055*
90MHz	*$2255*
100MHz	*$2355*

GRAY
Office System

- **Intel Pentium Processor**
- **Asus Pentium PCI Motherboard**
- **512KB External Cache**
- **8MB 72-pin RAM (Max 128MB)**
- **Diamond Stealth 64 PCI Video Card w/2MB**
- **15" Digital Flat Screen NI Monitor, .28**
- **Double Speed Internal CD-ROM**
- **Sound Blaster 16 Sound Card**
- **Microsoft Office Professional 4.3**
- 1.44MB FDD
- 540MB SCSI II HDD
- NCR PCI SCSI II Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mid Tower Case w/250W Power Supply
- 101-key Keytronic Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

60MHz	*$2495*
66MHz	*$2595*
90MHz	*$2795*
100MHz	*$2895*

SILVER
Dream Machine

- **Intel Pentium Processor**
- **Asus Pentium PCI Motherboard**
- **512KB External Cache**
- **8MB 72-pin RAM (Max 128MB)**
- **Diamond Stealth 64 PCI Video Card w/2MB**
- **Sony 15sf 15" Monitor, .25**
- **Quad Speed Internal CD-ROM**
- **16 Bit Sound Card + Stereo Speakers**
- 1.44MB FDD
- 540MB IDE HDD
- PCI Enhanced IDE Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mid Tower Case w/250W Power Supply
- 101-key Keytronic Keyboard
- Microsoft Serial Mouse
- Microphone & Headphones
- MYST, Rebel Assault, Doom, Raptor Simm City 2000, + 27 More Titles
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

60MHz	*$2495*
66MHz	*$2595*
90MHz	*$2795*
100MHz	*$2895*

GOLD
Workstation

- **Intel Pentium Processor**
- **Asus Pentium PCI Motherboard**
- **512KB External Cache**
- **16MB 72-pin RAM (Max 128MB)**
- **1 GB Enhanced IDE HDD**
- **ATI Graphics Pro Turbo PCI Video Card w/2MB VRAM**
- **17" Digital Impression NI Flat Screen Monitor, .26**
- **Teac Quad Speed Internal CD-ROM**
- **Sound Blaster 16 Sound Card**
- **Microsoft Natural Keyboard**
- **Microsoft Office Professional 4.3**
- 1.44MB FDD
- PCI Enhanced IDE Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mid Tower Case w/250W Power Supply
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

60MHz	*$3595*
66MHz	*$3695*
90MHz	*$3895*
100MHz	*$3995*

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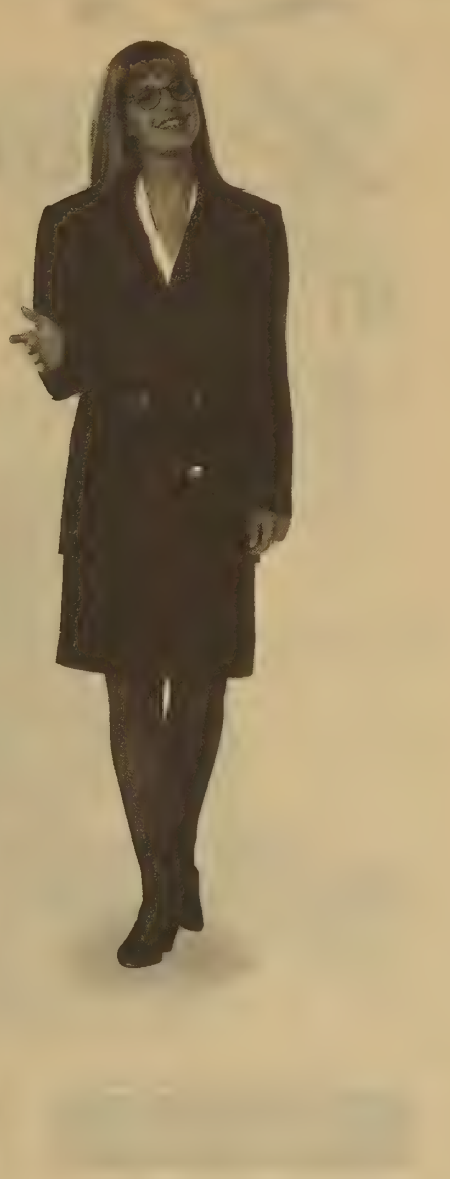
486PCI/VESA LOCAL BUS



VIOLET
VESA Local Bus Best Buy

- **Intel 486 Processor**
- **Asus Pentium PCI Motherboard**
- **128KB Cache**
- **4MB RAM**
- **15" Non-Interlaced Monitor, .28 dpi**
- 1.44MB FDD
- 424MB IDE HDD
- VLB 2H/2F IDE Controller
- 2S, 1P, 1G Ports
- 32-bit VL-B Graphic Accelerator Card/1MB
- Mini Tower Case w/ 250W Power Supply
- 101-key Enhanced Keyboard
- 3 Button Serial Mouse
- Microsoft DOS 6.22 & Windows 3.11
- Free Mouse Pad

Microsoft Upgrade Kit
- Double Speed CD-ROM Drive
- Sound Blaster 16 Bit Sound Card
- Amplified Stereo Speaker
- Microsoft Encarta 95
- Microsoft Golf
- Microsoft Baseball
- Microsoft Works
- Microsoft Money
- Microsoft Entertainment Pack (Danger Creative, Simm City 2000, Scene)

SX-33	*$1425*
DX-33	*$1465*
DX2-50	*$1485*
DX2-66	*$1525*

BROWN
486 PCI Office System

- **Intel 486DX Processor**
- **Asus 486 PCI Motherboard**
- **ZIF Socket for Upgrade to Pentium Overdrive**
- **256KB External Cache**
- **8MB 72-pin RAM (Max 128MB)**
- **Diamond Stealth 64 PCI Video Card w/1MB**
- **15" Digital Flat Screen Monitor, .28**
- **Quad Speed Internal CD-ROM**
- **Sound Blaster 16 Sound Card**
- **Microsoft Natural Keyboard**
- **Microsoft Professional 4.3**
- 1.44MB FDD
- 730MB IDE Hard Drive
- Built-in PCI IDE Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mid Tower Case w/250W Power Supply
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

SX-33	*$2295*
DX-33	*$2335*
DX2-50	*$2355*
DX2-66	*$2395*

IVORY
Achiever

- **Intel 486DX Processor**
- **Asus 486 PCI Motherboard**
- **ZIF Socket for Upgrade to Pentium Overdrive**
- **256KB External Cache**
- **8MB 72-pin RAM (Max 128MB)**
- **Diamond Stealth 64 PCI Video Card w/1MB**
- **15" Digital Non-Internal Monitor, .28**
- **Double Speed Internal CD-ROM**
- **16 Bit Sound Card**
- 1.44MB FDD
- 540MB SCSI HDD
- Built-in NCR PCI SCSI Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mid Tower Case w/250W Power Supply
- 101 Key Keytronic Keyboard
- Microsoft Serial Mouse
- Microphone & Headphones
- MYST, Rebel Assault, Doom, Raptor Simm City 2000, + 27 More Titles
- Microsoft DOS 6.22 & Windows 3.11

SX-33	*$1895*
DX-33	*$1935*
DX2-50	*$1955*
DX2-66	*$1995*

CYAN
Challenger

- **Intel 486DX Processor**
- **Asus 486 PCI Motherboard**
- **ZIF Socket for Upgrade to Pentium Overdrive**
- **256KB External Cache**
- **8MB 72-pin RAM (Max 128MB)**
- **Diamond Stealth 64 PCI Video Card w/1MB**
- **15" Digital Non-Internal Monitor**
- **Double Speed Internal CD-ROM**
- **Sound Blaster 16 Sound Card**
- 1.44MB FDD
- 420MB IDE HDD
- Built-in PCI IDE Controller
- 2-16550 High Speed Serial Ports
- 1 Parallel Port
- Mini Tower Case w/250W Power Supply
- 101 Key Keyboard
- 3 Button Serial Mouse
- Stereo Speakers & Microphone
- Quicken, Rebel Assault, Wing Commander, Links + 38 More Titles
- Free Mouse Pad
- Microsoft DOS 6.22 & Windows 3.11

SX-33	*$1845*
DX-33	*$1885*
DX2-50	*$1905*
DX2-66	*$1945*

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- Sound Blaster card, new dual speed drive Photo-CD compatible
- Lemmings, Animals!, Software Toolworks' Encyclopedia Sound Blaster CT-38 Shielded Stereo Speakers.

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- Mid-Level Multimedia Upgrade Kit.
- Sound Blaster 16, new dual speed drive, Photo-CD compatible
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- Top Games Bundled CD-ROM Titles

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- Creative TextAssist™
- Audio Compression Software and Hardware
- Microphone
- Stereo Headphones

$499

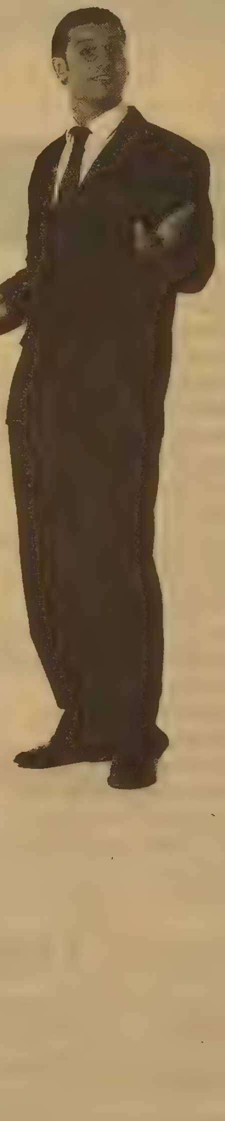
Digital School House
- Sound Blaster 16-16-Bit Stereo Sound Card
- Double Speed, Multi-Session CD-ROM Drive
- Stereo Speakers for Accurate Sound Reproduction
- 20 High-Quality Multimedia and Educational Titles

$279

Microsoft Upgrade Kit

- Double Speed CD-ROM Drive
- Sound Blaster 16 Sound Card
- Amplified Stereo Speaker
- Microsoft Encarta Encyclopedia
- Microsoft Golf
- Microsoft Works
- Microsoft Money
- Microsoft Entertainment Pack
- Danger Creative
- Sim City 2000
- Scene

$299



Diamond Multimedia Kit

- Kit 5000 w/Quad-Speed CD-ROM
- 16-Bit, CD Quality Sound Card, Wave Table Upgradable
- 30 + Best Selling Titles
- Premium Stereo Speaker, Headphone & Microphone
- Quick Start Video for Easy Installation
- Works with all Sound Blaster Compatible Games

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- Kit 4000 w/Quad-Speed CD-ROM
- 16-Bit, CD Quality Sound Card, Wave Table Upgradable
- 11 Best Selling Titles
- Premium Stereo Speaker, Headphone & Microphone
- Quick Start Video for Easy Installation
- Works with all Sound Blaster Compatible Games

$419

- Kit 1000 w/Double-Speed CD-ROM
- 16-Bit, CD Quality Sound Card, Wave Table Upgradable
- 30 + Best Selling Titles
- Premium Stereo Speaker, Headphone & Microphone
- Quick Start Video for Easy Installation
- Works with all Sound Blaster Compatible Games

$345

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Creative Labs	
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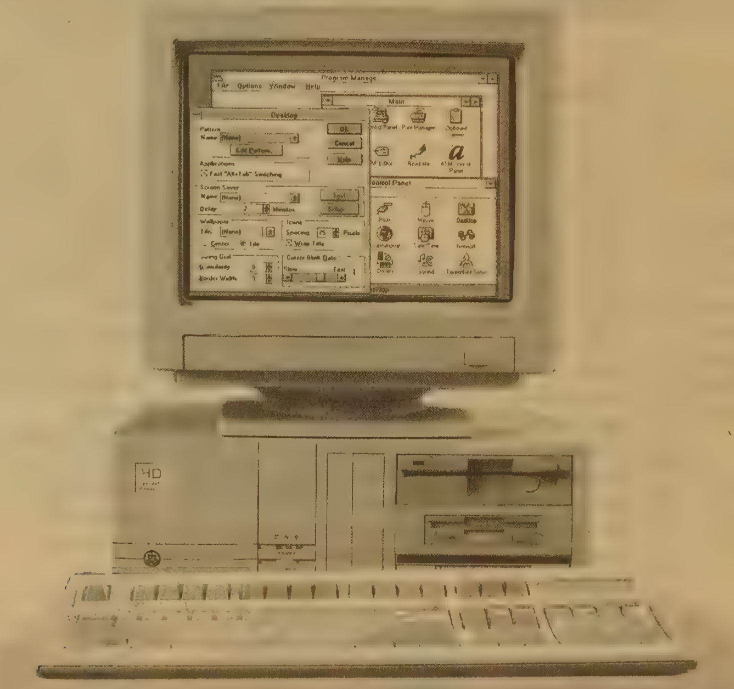

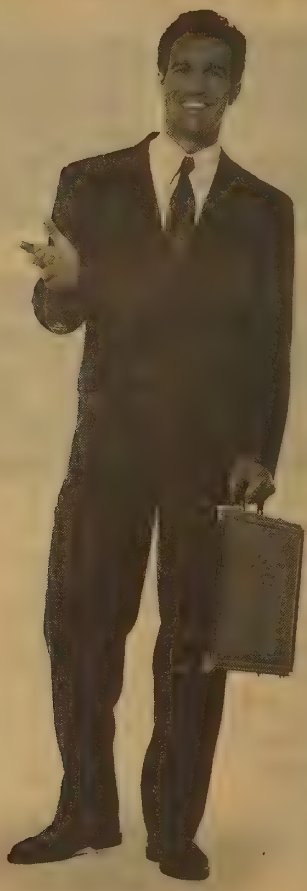

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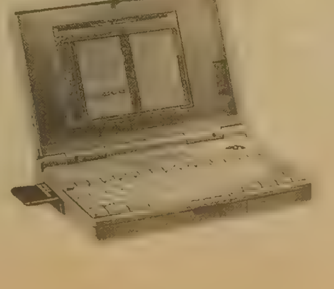

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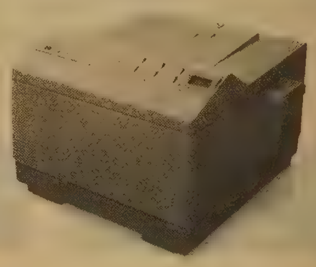

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Scanners have long held out unrealized promise for me. All of the basic things a scanner let me do was alright, but I always wanted it to be able to do more. For instance, I would like to come home from the library with the results from my research already in my portable. But flatbed scanners are not generally portable enough and handheld scanners are too cumbersome for the work I want to do.

The new DataPen scanner is the device I have been waiting for. It looks like a highlighter and plugs into the parallel port of my computer. It easily fits in my briefcase and provides the flexibility to pick and choose the passages that I want to capture without entering the information either by hand or editing a full page that was scanned.

Ultimately, the effectiveness of a scanner is no greater than that of the OCR (Optical Character Reader) software that translates the images into meaningful characters. The DataPen comes with OCR software that works perfectly for some text and is almost useless for other types of material.

The DataPen is available for both Macintosh and Windows environments. The software installation is simple and straightforward. Once installed, scanned text—no graphics—is placed either into the clipboard or directly into an application. This will let you import data into a spreadsheet or into your word processor.

Hardware installation consists of turning off your computer system and plugging the connector into the parallel port. To attach a printer at the same time, it is easy to connect the printer through the end of the DataPen connector. Power for the DataPen can come from any of three sources. The easiest way is to get it directly from the computer. A special cable provided by I.R.I.S. America, fits between the keyboard port and the keyboard. A separate tail splits off to plug into the DataPen parallel connector. A second alternative is to use the provided battery pack that clips onto the back of the parallel connector and holds four AAA batteries. They will power the scanner for about an hour. The third option is to buy a external power supply that can be found in many stores.

Whether you configure the scanner to automatically turn on when you start your computer or only after you launch the software, once everything is installed and selected, the device works like magic—most of the time.

The DataPen comes with sample documents to experiment with. It takes a little getting used to, but then works flawlessly with the samples. After working with these samples, I moved on to text from a book. Again, the DataPen worked perfectly. It would dump the text into the word processor, flawlessly capturing the selected paragraphs. I did have a little trouble on the inside left as the scanner got caught up where the pages were stitched together. If the margins are wide enough, this is no problem.

My final test was with faxed material. In this case, I was not able to get a high enough success rate to recommend the device. On laser printer-quality material there were no problems, but with the more common fuzzy stuff, I did not get a consistently good reading. Sometimes it worked perfectly and at other times I could get nothing more than dots and dashes.

> Ultimately, the effectiveness of a scanner is no greater than that of the OCR (Optical Character Reader) software that translates the images into meaningful characters.

In theory, this problem should not happen. DataPen software comes with a learning device that will enable you to teach the OCR the meaning of any symbol. If you have text that uses symbols that are not understood, you simply scan them in and then tell the software file the meaning. The next time, the symbol will come out correctly. The learning device makes it possible to read any font. In standard printed typefaces, I have had no difficulties.

The DataPen scanner is made in Belgium. The result is that the User's Guide is poorly translated and more difficult to read than necessary. However, you will be able to find anything you need to know, but the wording is often awkward.

While the scanner does amazingly well and fills a void, there are several limitations. You cannot scan a line longer than 11". I think this has to do with the buffer that holds the information before sending it out to the application. It recognizes type sizes only between 8 and 22 points. Red or yellow characters are not recognized. Characters that touch each other, as well as handwriting, are not readable. And finally, text on low-quality paper is not generally recognized. In general, I give high marks to both the scanner and the bundled OCR software.

If you have been waiting for a flexible, lightweight text scanner, wait no longer. The DataPen works and is almost all that I had hoped for.

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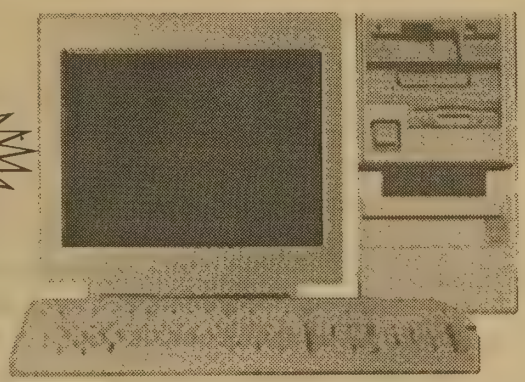

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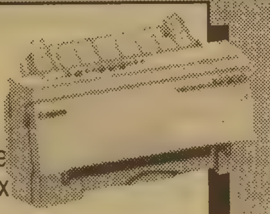

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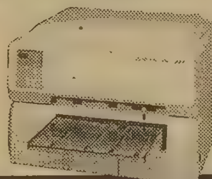

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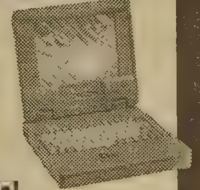

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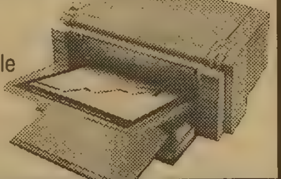

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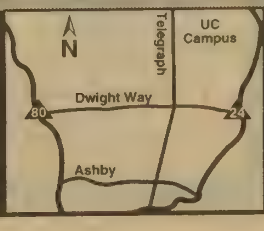

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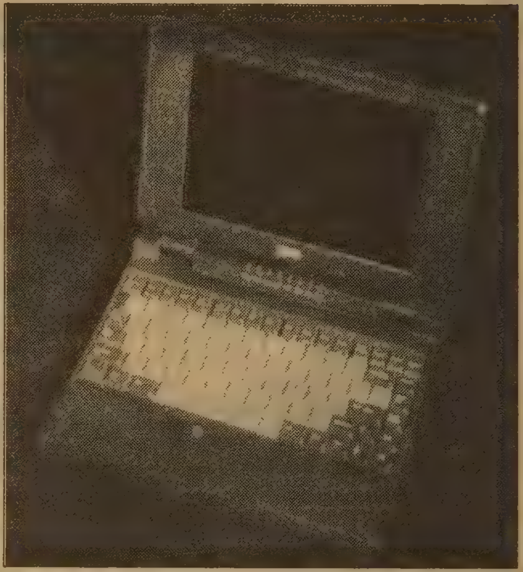
Computer Of The Month

Zeos Meridian 800



When setting out to buy a portable computer, you are initially faced with the choice of buying from a local dealer or ordering through the mail—well, actually ordering over the phone in most cases. The advantages of local purchase are that you can get in-person service and advice and also that you can "try before you buy." But the advantages of ordering over the phone are that you are often getting the lowest price on that model and, in the case of Zeos, you will have twenty-four hour service as close as your phone.

Zeos has long been one of my favorite mail-order manufacturers. Everyone I know who has bought from Zeos has been satisfied with both the product and the follow up service. Its newest high-end notebook is a pleasure to use and comes loaded with features.

The Meridian 800 is a full-size notebook weighing 6.3lbs., measuring 8.9" x 11.7" x 1.9", and offering a fast Intel 486 DX4-100 processor. The one I tested had 8MB of RAM and a 350MB hard drive. The same basic computer comes with as small a configuration as 4MB of RAM and a 175MB hard drive powered by an Intel DX2-50 processor. The starting price for the Meridian line is $2295. The top of the line configuration lists for $3995 with all the goodies including an active matrix color display.

The screen measures a huge 10.3" diagonally. This makes working in Windows a breeze. Zeos includes Windows for Workgroups preinstalled and ready to go. If you need a larger display, an SVGA monitor easily plugs into the video port on the back of the machine. You can set the monitors so that either or both will display for you. If you choose the active matrix display, you gain in quaility but loose a little in display size. The video system is local bus with 1MB of video memory.

RESOURCES:

Meridian 800C Color Notebook, $2295 and up
Zeos International, Ltd.
1301 Industrial Blvd.
Minneapolis, MN 55413
1-800-423-5891

The keyboard on the Meridian 800 is as good as they get on portables. If that isn't enough, you can attach a keyboard of your choice. A pointing device has become a necessity these days and Zeos has built in the best of the available options, a TruePoint button located just below the keyboard. The TruePoint, the size of a pencil eraser, moves the pointer in any direction you push the button. The faster you push, the more rapidly the pointer moves. This beats trackballs to pieces. If you prefer a standard mouse, you can easily attach one through either the mouse port or the serial port on the back of the computer.

The Meridian comes with a nickel metal hydride battery. It recharges in just over an hour. An extra battery pack ($99) is included with the high-end configurations. The AC adapter either powers the computer or recharges the battery pack, but not both. This may account for the quick recharge time.

This notebook complies with the EPA Energy Star standards, assuring you of the highest energy efficiency. A setup program lets you configure the system to any degree of power conservation you want. And like all good computers these days, there are two PCMCIA Type II slots that can also function as a single Type III slot.

In addition to Windows, the unit comes with MS-DOS, Lotus Organizer, and a nylon carrying case that has room for more than just the computer.

A final feature provided by Zeos is a thirty day money-back guarantee. If you don't like the computer, simply return it for a full refund. If you like it, you are protected by a one year warranty.

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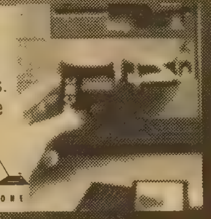

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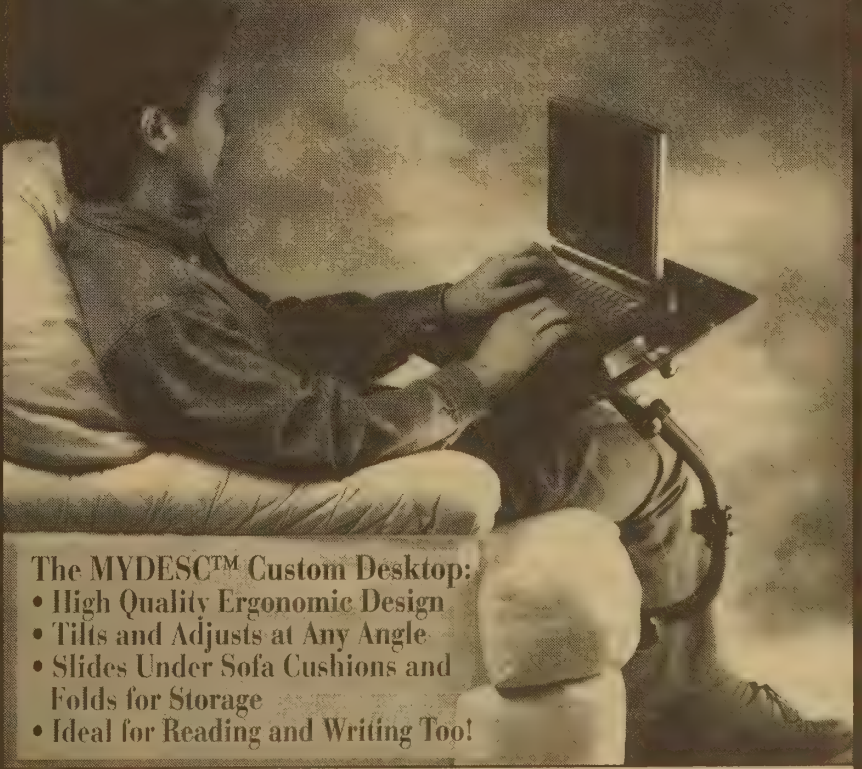

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BY EDWIN RUTSCH

Networking With Windows For Workgroups

It's Easier Than You Might Think

For most people, the networking of computers remains an impenetrable mystery, shrouded in jargon and attended to by expensive networking gurus. It is, however, becoming easier and less expensive all the time to get the advantages offered by the linking of computers. Hardware prices continue to fall and networking software is becoming easier to use with each new release. In fact, with a little effort, anyone with some computer savvy can install a low-cost Windows for Workgroups peer-to-peer network. In this article, I offer some tips on how to set up your own low-cost Windows for Workgroups (WFW) computer network. If you want to build your own network and already have the WFW operating system installed, the rock-bottom cost of the networking hardware could be under $50 per computer.

Peer-To-Peer Networks

So, what is a peer-to-peer network? Even though the definitions can blur, there are basically two kinds of networks, client-server and peer-to-peer. With the client-server approach, one fast central computer, acting as the "server," stores all the files that the "client" computers can access. These networks typically require costly high-end hardware and software as well as a highly trained network administrator to install and maintain them. On the positive side, they offer stable technology, high security, fast access, and the ability to support hundreds or even thousands of client computers. Novell's NetWare holds the lion's share of this market with Microsoft's Windows NT Server being the up-and-coming challenger.

With a little effort, anyone with some **computer savvy** can install a low-cost Windows for Workgroups **peer-to-peer network.**

Peer-to-peer networks, on the other hand, connect so that each computer can access and equally share resources—such as printers, hard disks, CD-ROM drives, faxes, schedules, and software—on any other computer in the network. They can act as both a client and a server. Their relative low cost and ease of installation and maintenance makes peer networks an especially good option for a home office, small business, or department in a larger firm. These networks do have some drawbacks compared to their more expensive counterpart, though. Security is not as tight and performance will suffer as more computers are connected together. Even though Microsoft claims to have connected seventy-five hundred PCs in their offices while initially testing WFW, generally thirty computers is considered the upper limit that can be connected while maintaining reasonable performance. In the peer market, Artisoft's LANtastic has emerged as the main competitor for connecting DOS-based PCs while Microsoft's WFW holds the top position for connecting Windows-based PCs.

WFW has a lot going for it. First, the cost of the software can be quite reasonable. It often comes preloaded on new computers. If you have Windows now installed, the cost of an upgrade to WFW is only around $50 per computer. I find WFW the best version of Windows even for standalone computers. It has 32-bit file access, making it about 30% faster than regular Windows.

If you are familiar with the Windows interface, learning the networking features will not be much trouble, for they are a logical extension of the operating system. For instance, you access the drives on other computers through the File Manager, and keep track of networked printers through the Print Manager. The Clipboard turns into the Clipbook, which supports workgroup features across the network.

About Networking Hardware

In its most simplified form, a network is created by installing a network card in each computer and then connecting each card with a cable. Remember, you can run any networking software, that means Novell NetWare, Windows NT, LANtastic, WFW, etc. on the same hardware. So don't worry about getting locked into any networking software. You can always change it in the future and not lose your hardware investment. For the timid, I recommend starting by connecting just two computers to see how it works. Gain some experience first, and then connect more computers later, as you feel comfortable. If the thought of opening a computer and delving into manuals makes your head numb and eyes glaze over, you may want to hire a consultant initially to set up the first couple of computers. Then try your hand at expanding the network later.

Before starting to install the network, plan it thoroughly. I like to document each computer by placing all the technical parts manuals and disks containing drivers for each computer into a separate three-ring binder. I include a log of all changes to the computer and a list of which IRQs and base I/O ports have been used. The IRQs and base I/O ports tell the PC how to communicate with the network card. Use the Microsoft diagnostic (MSD.exe) utility that comes with DOS or WFW to check for available IRQs. When installing a network

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card, you'll need to use one available IRQ and base I/O port. If the computer has numerous add-on cards, such as a CD-ROM card, sound card, SCSI card, etc., finding an unused IRQ and base I/O port can be one of the biggest problem areas you may encounter. So document each computer well.

Selecting The Cabling

Next, decide which cabling to use. Peer networks typically use either coaxial or twisted-pair cabling. Coaxial (or coax) cable looks like cable TV line and is the least expensive networking approach. The cable connects consecutively from one computer to the next. Both ends of the network need a terminator that tells the electronic signals "this is the end." A 25' ready-made cable costs under $15 and terminators cost a couple of dollars each. The main disadvantage of using coax is if a cable breaks, or one computer is disconnected, the entire network goes down. Coax is best for the budget conscious or for networks with stationary computers that are located close to each other.

Twisted-pair cabling looks similar to phone line but it is not quite the same. Twisted-pair has eight wires, while a typical phone line has four. The cable can be found at computer supply stores, a 25' ready-made cable should cost under $10. This wiring approach requires a hub, which is a central connection box for the network. The cost varies depending on the brand and number of computers they support. An 8-port hub, for connecting eight computers, can be found for about $175 and up. Connecting and disconnecting computers from the hub does not affect the network. This makes twisted-pair–type networks popular where computers are routinely added or moved around.

Choosing The Network Cards

I have divided network cards into two groups: brand-name and what I call "generic cards." Brand-name cards come from such well known companies as Intel, 3Com, and SMC. They generally cost $100 and up. The generic cards, on the other hand, are often made by Taiwanese companies and come in a nondescript box that merely says "Network Card" or "Network Interface Card" on it. They can be found in the $30 to $70 range.

Which type to purchase? One computer dealer I talked to said, "You get what you pay for and Taiwan is a long way to call for support." However, another dealer, who sells generic cards, told me, "If you are working with a simple local area network, use the low-cost cards, they perform pretty much the same as the higher-priced ones. When you need support call the dealer who sold you the cards." Being budget conscious, I use generic cards, and from my experience they work fine.

When purchasing network cards I recommend the following:

1. Get Ethernet cards. Ethernet is a communications standard developed by Xerox and is the most common standard for networking.

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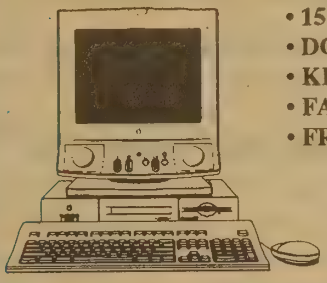

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2. If you purchase generic cards, make sure they are NE2000 compatible. Most generic card manufacturers follow this driver standard which was set by Novel. WFW has the NE2000 driver built-in, which simplifies installation.

3. Buy jumperless cards. With jumperless cards, you set the IRQ and base I/O with a software utility that comes with the card instead of with dip switches or jumpers on the card.

4. Get "combo" cards that support both twisted-pair (UTP connector) and coax (BNC connector) versus just one or the other. Only a small price difference exists and having both connectors adds to the cards' flexibility by being able to easily change cabling types in the future if need be.

> **If the thought of** opening a computer and **delving into manuals** makes your head numb and **eyes glaze over,** you may want to **hire a consultant** initially to set up the first couple of computers.

Installing The Network

Once you have all the network hardware, insert the cards as you would any other expansion card and run the cables between the computers. A diagnostic utility for setting the IRQs and base I/O, as well as for testing the network connection, generally comes with the network card. Using the utility, set the IRQs and base I/O. Then test the network to make sure the computers are connected properly before installing or launching WFW.

Installing or upgrading to WFW is a straightforward process. However, when using a generic network card, the auto hardware detect feature of WFW will generally not detect the network card and will lock up. WFW will then need to be reinstalled. To prevent this problem, use Setup/I to bypass auto detect or use Custom Setup in the installation menu. Another tip for NE2000-compatible network cards: Choose the NE2000 driver from the WFW Add Network Adaptor menu instead of the utility disk. I've been told it is more reliable.

Add-on Products And Support

For connecting DOS-based machines to the network, you can use Microsoft's Workgroup Add-on for MS-DOS (previously called Workgroup Connection). It is used for connecting older DOS-based computers as clients to the network. While not the most elegant piece of software, it does the job.

To connect a Macintosh to a WFW network, use Miramar Systems Inc.'s Personal MacLAN Connect. When installed on the PC, it allows Macs to access printers, hard disks, floppy drives, CD-ROMs, directories, and files on the PC. With compatible versions of software, such as Excel on the PC and on the Mac,

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For general support, contact the hardware dealer where you purchased the products. Also call Microsoft's technical help line (if you can get through), or check CompuServe's Microsoft Windows for Workgroups forum (GO MSWFWG). In the forum, you can leave questions that other users or Microsoft's technical support staff will answer. In addition, you may find helpful networking utilities that can be downloaded. Finally, check out the meetings of the San Francisco PC User Group's Networking Windows SIG; call the SIG coordinators at (510)528-9895 for information on the next monthly meeting.

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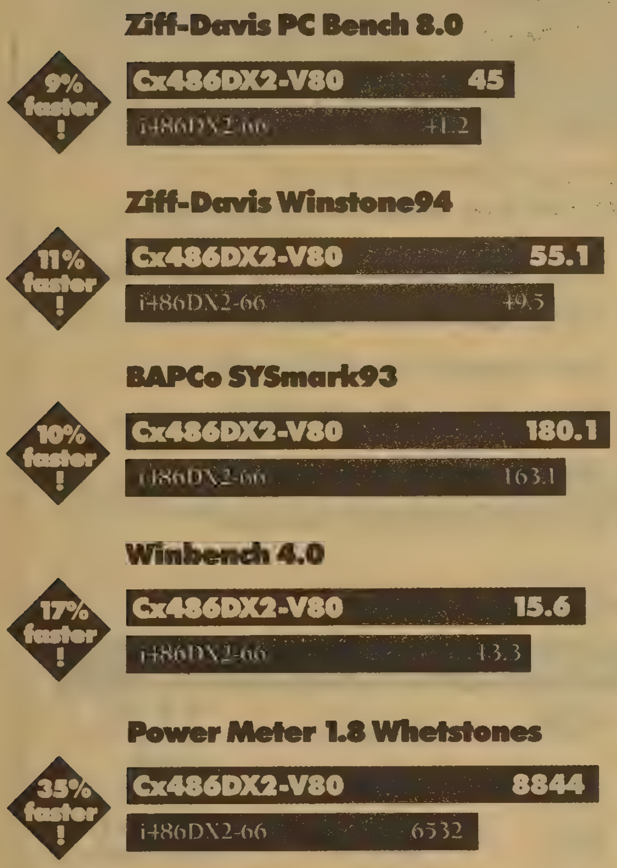

Benchmark	Cyrix DX2-V80	Intel DX2-66
PC Bench 8.0	**45.0**	41.2
Winstone94	**55.1**	49.5
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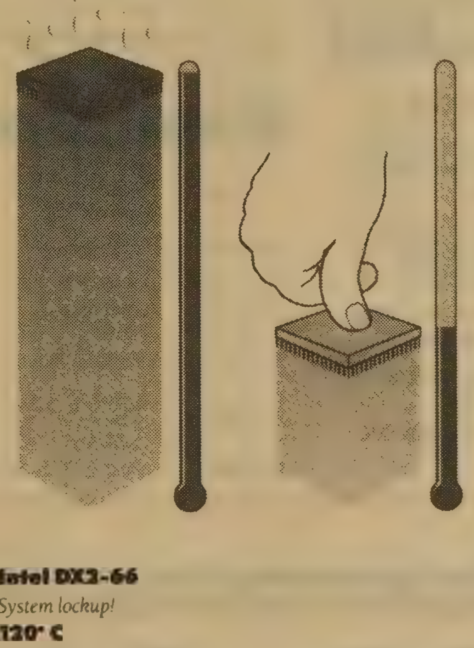

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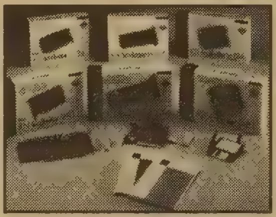

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NETWORKING • BY PETER JOHN HARRISON

LAN-To-The-Internet, Part II

What You Need To Connect To And Use The Internet

Last month I introduced you to some of the reasons why companies are flocking to the Internet as a place to do business, and gave you some tips on what to look for when you're hunting for an Internet access provider for your business. This column will focus more on the hardware and software you need at your end to connect to and use the Internet.

The things you'll need to connect to the Internet depend on what kind of Internet access your company is interested in. If, for example, all you want is a way to send email messages between people on your LAN and the Internet at large, most major email systems have add-on software packages that let you use a simple, dial-up modem connection to act as a "gateway" between your LAN's email system and the Internet.

If you need a more interactive environment, one that will allow people on your LAN to log in to remote hosts, transfer files, and browse the World Wide Web, or set up your own Internet server, you'll need a more robust "dedicated service" connection to an Internet access provider and TCP/IP client and server software to meet your needs.

Once you've selected an Internet access provider and chosen the type of dedicated connection you will have to connect to their service (see last month's issue), you'll need to acquire a router and the equipment required to connect the router to your dedicated line. Most Internet access providers offer installation packages that include these tools and their configuration, and it's probably best to take them up on their offer, or at least purchase the same brand of equipment they recommend. That way you'll always be able to turn to them if you need help resolving a problem.

Once your dedicated connection is up and running, you'll need client software that will allow users on your LAN to access the Net. If you're running a UNIX-based LAN, chances are you already have the basic tools you need; the TCP/IP protocol suite, which drives Internet communications, and its tools are closely associated with the UNIX operating system, so I'm going to focus on the tools needed to wire up a LAN with Macintosh and PC computers.

PC users have it easy when it comes to finding TCP/IP software that will work on their system. There is a wide range of commercial tools available for MS-DOS and Windows. My favorite commercial tool for Windows is a package from NetManage, called Chameleon. Chameleon comes with all the software you need to set up one PC on the Internet, including thorough documentation and some basic "server" software that will allow users on the Net to ftp in to your LAN and up- or download files, but at $400 a pop, you may find yourself looking for cheaper alternatives.

Fortunately, there are some excellent shareware and freeware alternatives to the expensive commercial products. Products developed not only by shareware entrepreneurs, but also by universities and government agencies. Shareware takes a little more time to work through and set up, and some packages have only minimal documentation, but a full suite of shareware tools that includes all the basic "client" interfaces needed for full Internet access can cost as little as $25 per node—a fraction of the cost of a commercial package. Given the very large cost difference between commercial and shareware products, you may decide it's worth buying shareware for some of your systems, and commercial software for others. I have my shareware and freeware favorites: Trumpet Winsock for the TCP/IP network layer, PC Eudora for email, WS_FTP for ftp file transfers, and Cello or NCSA Mosaic to browse the World Wide Web. You can get these tools and some tips on how to install and use them in *The Internet Direct Connect Kit* (by Peter John Harrison), or from the CICA collection, which is available online on the Internet and on CD-ROM from Walnut Creek CDROM.

For the Macintosh users on your LAN, the best known commercial TCP/IP software suite is Intercon's TCP Connect II for Macintosh (Extended Version). Like its PC/Windows alternative, Chameleon, TCP Connect II comes with excellent documentation and a complete suite of basic TCP/IP tools for accessing the Internet, and it's fairly expensive: $495 for each system you want to connect. So once again, you may find yourself looking for cheaper shareware alternatives.

The first thing you need before you can use the Internet or any TCP/IP application with a Macintosh is MacTCP, from Apple Computer. MacTCP is bundled in with Intercon's TCP Connect II for Macintosh, but can also be had from a number of less expensive sources. Macintosh System 7.5 and later, for example, includes MacTCP with its "Networking Software" installation, or you can get it and some hints on how to set it up with Adam Engst's book *The Internet Starter Kit for Macintosh*, from Hayden Books.

Once you have MacTCP installed, there are many good shareware and free programs available, like Mac Eudora for your email, Fetch FTP for doing ftp file transfers, and NCSA Mosaic for browsing the World Wide Web. Once again, you can find all of these programs online, but unlike its

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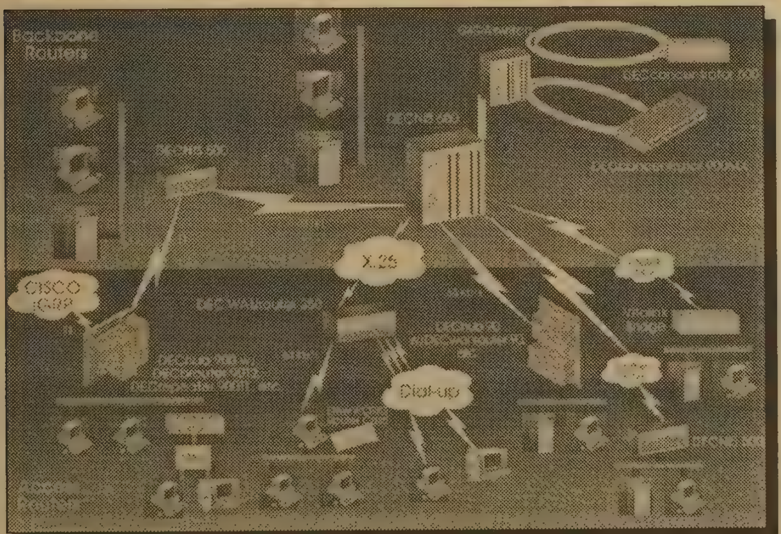

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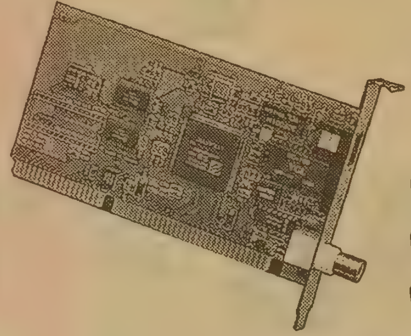

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PC/Windows cousin, there is no definitive online collection of Macintosh TCP/IP shareware. Adam Engst's book has some of the shareware I mention here, and that's a good place to start, another good place to look is Walnut Creek CDROM's new Ultra Mac Utilities Shareware CD-ROM, which is due this month.

That about wraps this month's installment on how to connect to the Internet. Next month I'll look at some of the more popular Internet "server" applications and introduce you to some of the hazards of Internet connectivity and how to protect yourself. ■

> Given the very large cost difference between commercial and shareware products, you may decide it's worth buying shareware for some of your systems, and commercial software for others.

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FTP Access to the CICA Collection of Windows TCP/IP shareware:
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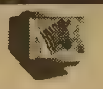

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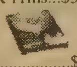

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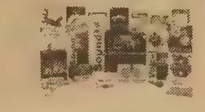

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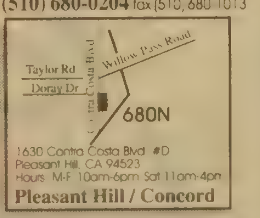

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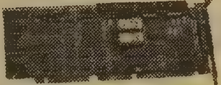

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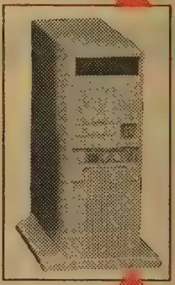

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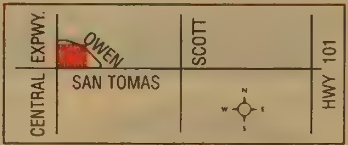

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TELECOMMUTING • BY ROBERT MOSKOWITZ

Telecommuting Check-Up

Establishing Self-Management Procedures Can Help Telecommuters Function More Effectively And With Less Stress

One of the biggest responsibilities of individual telecommuters who want to remain successful enough to keep their flexible work schedules is to manage themselves well enough to keep doing their jobs productively over the long haul.

Clearly, working away from the office has both positive and negative aspects. There may be fewer distractions away from the office, for example, but there may also be less restraint from overwork or neglect of personal and family matters. It's enjoyable and satisfying to set your own schedule, but it can be draining to work without an externally established framework.

Fortunately, it's fairly easy to establish simple, "direct systems"—or "self-management procedures"—that can help any telecommuter function more effectively, with less stress and less danger of negative fallout from too much flexibility.

However, these systems can require time to take hold. Both novice and veteran telecommuters should allow themselves at least three to four months to become acclimated to any new self-management systems they're trying to put in place.

Overwork (Or Workaholism)

Telecommuters enjoy their freedom and flexibility for a variety of reasons: because it helps them balance work with family and home life, because it gives them additional quiet time in which to be more creative or productive, or perhaps because it lets them work with less stress and tension.

Whatever the reason, there is the constantly lurking danger that telecommuting will decrease rather than increase your flexibility.

It sounds paradoxical, but once you are within arm's length of your work at almost every hour of the day and night, it becomes far too easy to work longer and longer hours in an attempt to accomplish everything that cries out to be done. After a while, some telecommuters find their work is dominating all of their time, instead of occupying as it should just one place among many different agenda items on your schedule.

One common reason is that, while telecommuting, you rarely receive the same cues to stop work or take a break that you normally encounter at the office. For example, at the office people may frequently walk by your open doorway enroute to a coffee machine or a bathroom. People may invite you out to lunch or disappear from your sight and hearing for an hour during midday. They all make noise or say "goodbye" as they leave for home at 5 or 6 or even 7 pm.

Without these cues and interruptions, it's easy for you to keep on teleworking—perhaps almost endlessly!

This can create its own problems. For example, you can become fatigued, and pass along work containing mistakes you'd normally have caught. It's also possible for overwork to contribute to stress, leading to illness, emotional burnout, or worse.

All this means it's critically important for telecommuters to establish "normal" business hours. It's valuable to have a routine in which you start, stop, and take breaks every day at the same time. You needn't be compulsive about this schedule, of course, but a baseline structure not only tends to prevent overwork, it gets you into a routine that allows you to concentrate more thoroughly and productively during the hours you do work.

> There is the constantly lurking danger that telecommuting will decrease rather than increase your flexibility.

Maintaining regular hours over a long period of time also helps facilitate communication with those in the main office. Even if you telecommute only one day a week, your manager and coworkers will appreciate knowing when they can expect to reach you and when they can't.

As a telecommuter, you can work far more satisfying hours than the standard 9-to-5 schedule. But maintaining some overlap with other peoples' office hours is usually helpful and productive. You're still free to schedule other work from midnight to 3 am, or from 8 pm to 11 pm, if that's what suits you.

Procrastination

Although a modest amount of procrastination can have positive benefits (see my book, *How to Organize Your Work and Your Life*, Doubleday, 1993), too much procrastination is probably a short route to the unemployment line.

As a telecommuter, you may be scrutinized more than most other employees to see if you are "producing useful work." That's why most telecommuting training programs and how-to handbooks suggest that you accept assignments in terms of deliverables, and that you work hard to keep in touch with your supervisor to make sure he or she is aware of all you're doing.

But these techniques fail miserably if you let procrastination get the upper hand.

So it's particularly important that you pay attention to your own work habits. Sometimes keeping a "Time Log" is a good idea. By noting the hours you actually work and the projects that occupy your time, you can begin to get a sense not only of when you are strongest and most productive, but when you are weakest and most prone to procrastination.

You can also see clear signs whenever you are procrastinating too much! The Time Log will show wasted hours, missed deadlines, and late starts on important projects.

Wary of procrastination, telecommuters must consider and counteract a lot of potentially strong reasons for putting off work they should be doing. Among the most common reasons for procrastination, watch out for such possibilities as: simple tiredness, fear of failure, loneliness, reluctance to start a project you're not certain you can finish, simple contrariness, or fear of too much success.

> It's critically important for telecommuters to establish "normal" business hours.

The best remedy for procrastination is self-discipline. You probably have at least some of this or you wouldn't be successful as a telecommuter. If you can make yourself adhere to reasonable telecommuting work hours, there's a good chance you won't procrastinate as a telecommuter any more than when you're in the main office.

If self-discipline won't work for you, try giving yourself rewards for the hours you put in telecommuting. Every hour, for example, give yourself a ten-minute break. Every two or three hours, give yourself a snack or a nice meal. Every day, give yourself half-an-hour or more of pure relaxation or fun time.

You may also find it helpful to "dress" for work as a telecommuter, even if you're working at home. You may not want to wear your power suit on these days, of course, but something more formal than a bathrobe can help you get into the proper frame of mind to do something useful instead of procrastinating.

If you ponder the problem, you'll probably find many ways to "pay" yourself with rewards for putting your shoulder to that telecommuting work load, and thus avoiding the danger of procrastination that can otherwise sneak up and take you by surprise.

Scheduling For Telecommuting

Working at home goes better when you can do it in an orderly, effective manner. But since each workspace and each telecommuter is different, you'll probably have to invent your own systems for scheduling your work and keeping to your schedule.

The simplest way is just to pretend your days as a telecommuter are days in your office, and to keep everything as tightly scheduled as you normally do. The main difference would be that working as a telecommuter you can schedule such "non-office" tasks as reading the morning newspaper, taking the kids to school, grocery shopping, walking the dog, taking a

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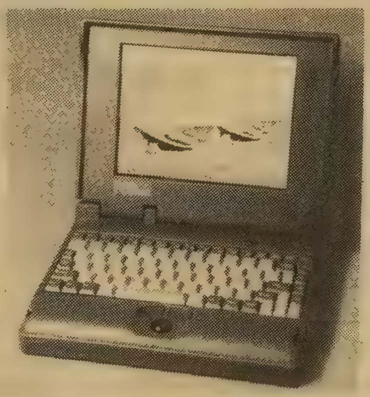

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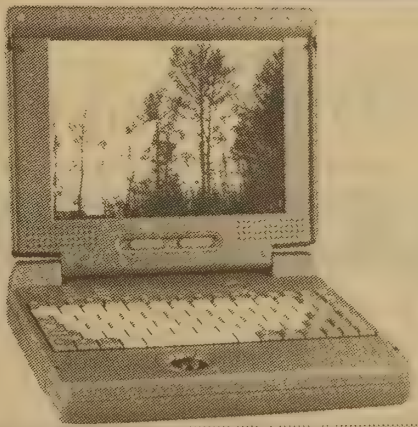

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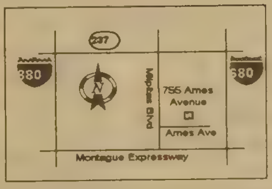

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Telecommuting *continued...*

nap, and having a meal with the family.

First consider how many hours you will work each day you're telecommuting. Then, block out exactly which hours you'll be working. Then fill in the blocks with all the tasks you want to accomplish.

Although it's natural to want to spend time with your children when you're working from home, kids can easily absorb far too much of your workday. Don't think telecommuting allows you to avoid other arrangements for child care—particularly if you have young ones. Schedule time for your kids, and time for work. Help the young ones understand you're no more available during hours you're working as a telecommuter than you are during hours you're working in the main office.

> By noting the hours you actually work and the projects that occupy your time, you can begin to get a sense not only of when you are strongest and most productive, but when you are weakest and most prone to procrastination.

One basic principle is to discuss your telecommuting work schedule with everyone who lives with you. Like your colleagues at work, there may be pressure on them to change their routines to accommodate your new flexibility.

Take their concerns seriously, and work with them to develop remedies or solutions to the problems your telecommuting might be causing.

One of the biggest problem areas can arise from a major benefit: telecommuting shaves a good deal of commuting time from your day. You'll be surprised to discover what great expectations other people may have of how you're going to spend this suddenly "found" time. All too often, you shave an hour a day from commuting but find that others expect you to pick up two hours a day of extra chores!

Telecommuting And Intellectual Property

Pamela Samuelson, professor of law at the University of Pittsburgh, has some strong ideas regarding the Clinton Administration's Working Group on Intellectual Property Rights, and its *Preliminary Draft Report on Intellectual Property and the National Information Infrastructure.*

The topic is important to telecommuters because so much of what they do has the potential to be transmitted over the National Information Infrastructure (NII) at some point in a project's lifecycle. Anyone who is developing original material needs and wants reasonable assurance that their work won't be stolen and mis-

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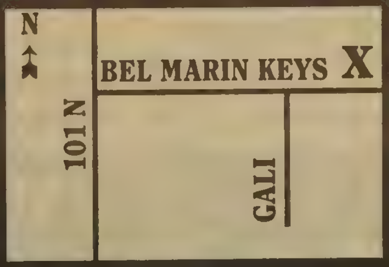

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According to Professor Samuelson, digital networked environments pose particularly severe challenges to intellectual property rights because they make it so simple for anyone to copy original works and distribute them instantaneously, at virtually no cost.

Obviously, this would not only undermine the incentives of authors and their publishers, but would severely handicap the security of original works created and distributed by anyone who is not working at an organization's main office.

However, Dr. Samuelson disagrees with President Clinton's Working Group about proposed changes to existing copyright law they characterize as "minor clarifications and changes."

She regards it as curious that the Report omits any discussion of how existing digital networks like the Internet have supported present-day notions and purposes of copyright. Far from "empty pipelines awaiting content," today's networks are awash in sensitive and valuable material whose publishers and authors are as fully protected as they are by other media.

"Since its inception," says Samuelson, "the Internet has greatly facilitated and enhanced communication and learning of the very sort that copyright law is supposed to promote. It has enabled researchers to gather and share data more easily, to engage in collaborative work at remote locations, to criticize and refine one another's work, and to make research results and the like available...."

She believes the vast majority of Net users are law-abiding citizens who generally pursue only established, fair, and reasonable uses of copyrighted materials.

But the Working Group Report takes a more paranoid view of copyright infringement, and fails to recognize both formal and informal mechanisms within cyberspace that already reflect and uphold the intention of existing copyright law.

For example, BBS operators actively—and successfully—discourage copyright infringement. "Netiquette" also holds that theft of other people's work is bad form.

"The Draft Report should acknowledge and build upon the strengths of existing digital networked environments," says Samuelson. She'd like to see the Working Group more carefully consider the overall impact of their recommendations, and seek ways to adopt existing laws to the new medium, rather than advocate dramatic changes to the law.

"It is simply not true," she says, "that the Report recommends only minor clarifications and changes to copyright law." Samuelson suggests that network users, like you, learn more about the policy issues involved with digital networks and copyright law, so they can join the policy debate and contribute their views toward a solution that balances public interest and copyright protection.

Readers who email me can receive more information on where to find Dr. Samuelson's article and the Draft Report in question.

continued on page 236

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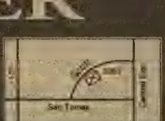

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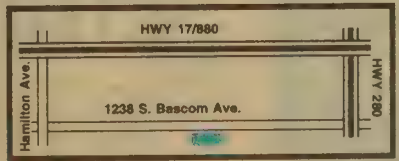

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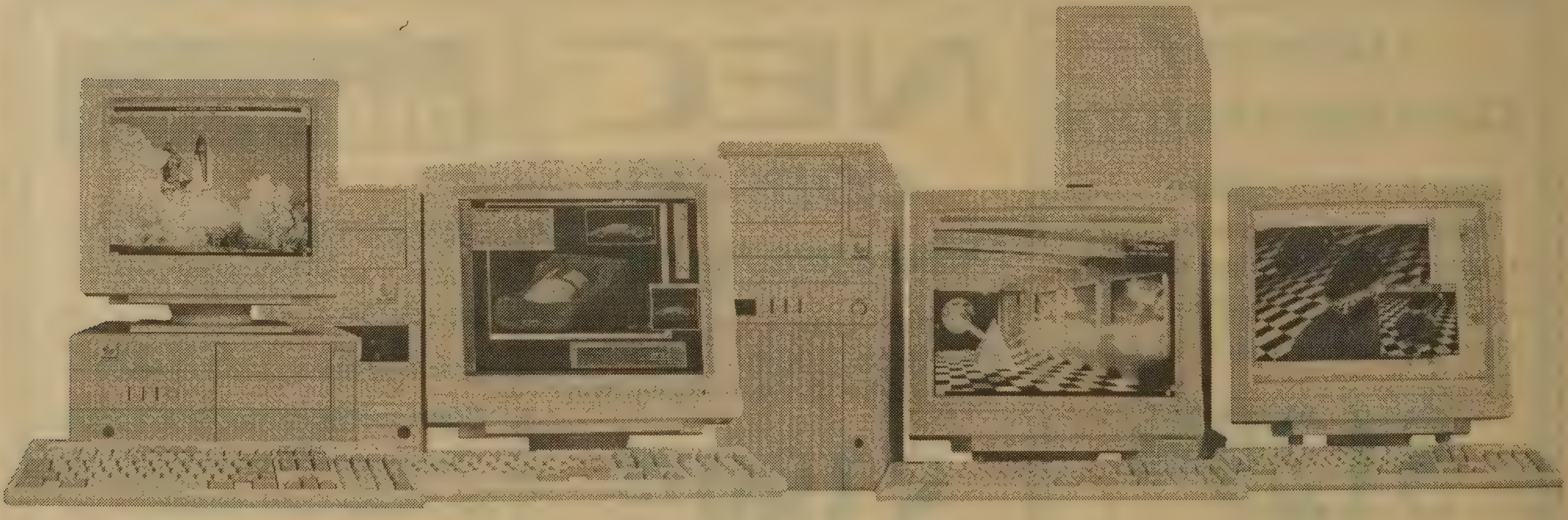

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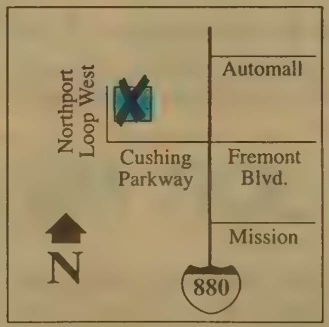

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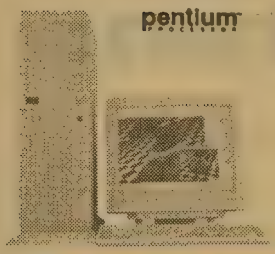

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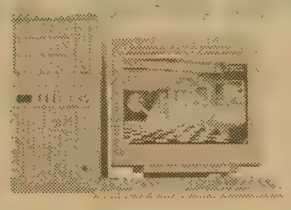

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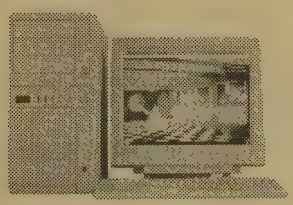

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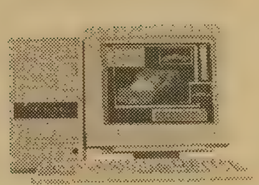

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Hapless In Manhattan:

The Fate Of UNIX In Very Large Companies

From New York *City, our fearless correspondent, Hapless User, writes:*

Dear MicroTimes,

As you know, for the last five or six years, I have been engaged in a personal quest for something like enlightenment. For reasons that are now obscure, the UNIX operating system became the vehicle for this quest. The pursuit of UNIX knowledge led from Emeryville to Yreka to Tibet. Enlightenment remains elusive, but now I seem to have something like a consulting career.

Even given the demands of working as a consultant, it was something of a shock to find myself in Manhattan wearing a pinstriped suit, white shirt, and tie. I'm not at all sure even now how I came to be there or what I was supposed to be doing.

In any event, what I did do was spend several days at an average altitude of twenty-nine stories visiting the information technology departments of several very large companies. (Actually, it may have been several locations belonging to only one very large company. The exact boundaries were not always obvious.)

I used to think that any business larger than twenty-five people was large. Now, "large" begins somewhere in the neighborhood of two thousand employees, and a company with twenty thousand employees has to be thought of as "very large."

In a very large company where most of the twenty thousand or so people do their work at a computer, the information technology department (IT for short) is a very big deal. The job of the information technology department is to figure out what hardware and software everyone else will use to get their jobs done. After figuring this out, the IT department arranges for things to be purchased, developed, installed, and maintained.

Most large companies prefer not to build their own hardware. On the other hand, the software that runs a large company's business almost has to be developed and supported in-house.

Consequently, it's not uncommon for an information technology department to look a lot like a software development company that happens to have exactly one customer. The IT organization will do all the things that software companies do: design, build, test, deploy, support, and maintain applications for the rest of the company.

Unlike a conventional software company, however, the IT department can't easily redefine its market or its products, and if anything, IT departments face more intense pressures than their conventional counterparts to contain costs and to deliver products on time.

The peculiar pressures of working in an IT department take their toll on the people who work there, and this becomes apparent when you're seated around a conference table on the thirty-fourth floor with a dozen or so people from the IT department eating pizza.

Pizza With IT

The people from IT are mostly young, mostly male, dressed alike with well-shined shoes. Their manager, like them but enough older to serve as a father figure, arrives a little late. Apologizing for the delay he explains that there is a new chief information officer (CIO). The manager has spent the last twenty-four hours preparing presentations that describe and justify all the projects he controls.

The CIO is the person who is ultimately responsible for how well the IT department serves the rest of the company. A new CIO typically promises to do two things: cut costs and deliver some major new project in the next eighteen months. The considered opinion of everyone in the room is that these goals are next to impossible to achieve. Cutting costs means laying people off. Delivering something new means cutting back existing projects and redirecting the department's efforts. Delivering something new within eighteen months means finding a "magic bullet," some hitherto unexploited trick of technology to make everyone more productive than they are. No one in the room is confident that the CIO has such a trick up his sleeve.

Cutting himself a slice of pizza, the manager proclaims: "The new CIO says that PCs have the 'scalability' we need to do data processing." Everyone around the room takes a moment to absorb this information: it means that the new CIO is trying to cut hardware costs.

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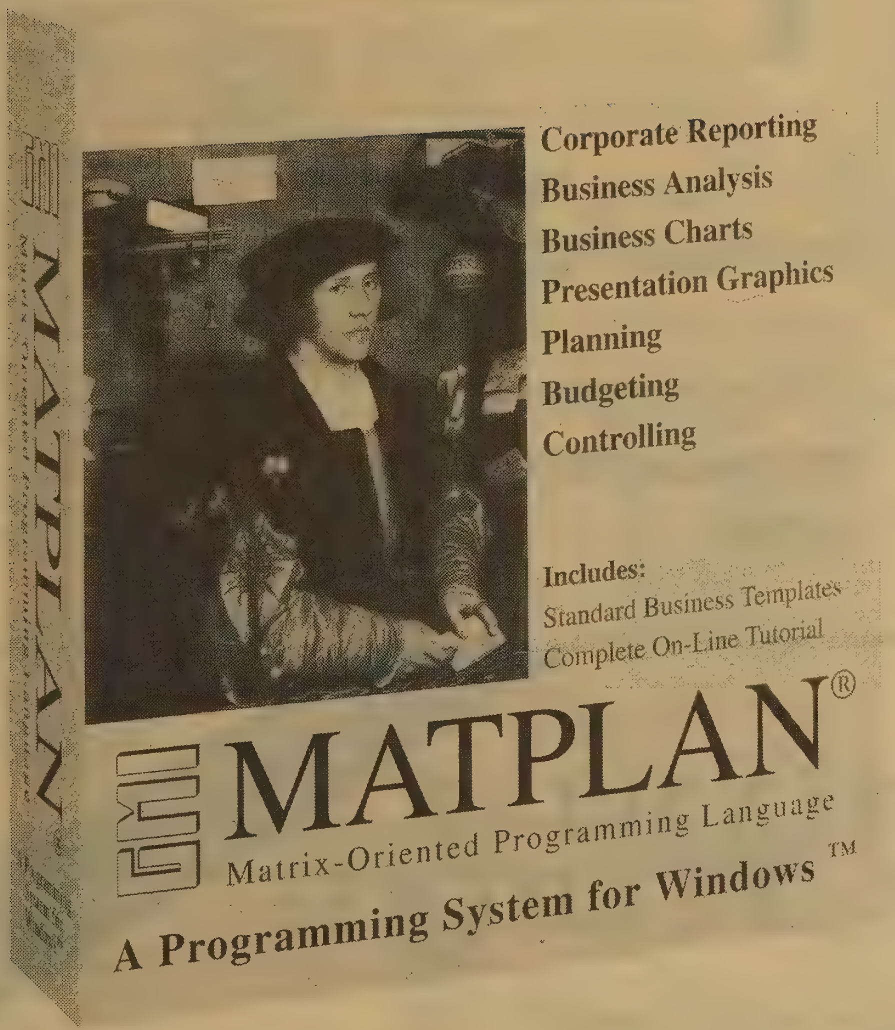

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UNIX *continued...*

It also means that the magic bullet the CIO needs will have to run on a PC. Around the room, people shift ever so slightly in their chairs in response to this news, and as they do, it becomes suddenly clear that the IT department consists of three very different classes of people: mainframe people, PC people, and UNIX people.

IT Worldviews

The mainframe people have an air of cultivated detachment. They are entrenched, impervious to change. The company's most precious data is stored on their machine and is accessible only through COBOL programs written fifteen years ago. No one would dream of rewriting these programs for fear of breaking something.

Interestingly, the mainframe people are not appreciably older than the rest. Most of them were still in grade school when the programs they now manage were written.

Whatever their age, however, the mainframe people know how big a deal it would be for the company to scrap the mainframe. Their jobs are secure, and they will now fall in line behind the new CIO just as the mainframe people before them always have.

They will even scour the trade press looking for the much-needed magic bullet, and when they run across any promising new technology, they will spread it around so that everyone knows how smart they are. Regarding the new technology itself, they have no opinion. If the technology happens to fail, it is of no consequence to them: they are mainframe people, and watch trends come and go with glacial serenity.

At the other extreme, the PC people greet the news with a burst of nervous energy. They're certain that their systems are about to be vindicated as full-fledged workstations. Their machines will no longer be thought of as glorified typewriters. They will find the magic bullet; indeed, they are confident they have already found it and are only waiting for the rest of the world to acknowledge their discovery. Their time, they believe, has finally come.

The UNIX people, on the other hand, are between a rock and a hard place. To begin with, they are not sanguine about the much-needed magic bullet. They know that the PC people believe they have the means to increased productivity already in hand, and

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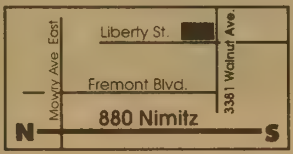

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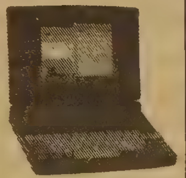

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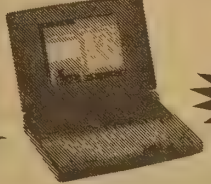

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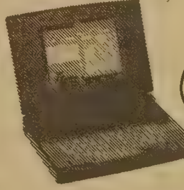

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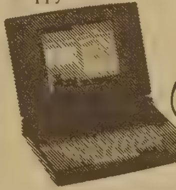

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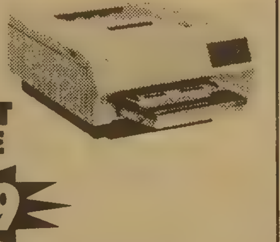

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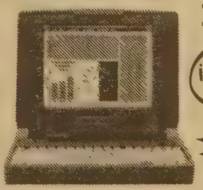

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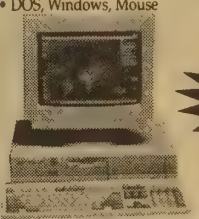

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UNIX *continued...*

they are convinced that the PC people are just plain wrong.

If there is such a thing as a magic productivity tool, the UNIX people opine silently, it is three or four years away and will take a lot of effort to develop. Consequently, the UNIX people are not so public-spirited about new technology. They tend to hang on to what they find, trying to understand it completely before calling attention to any new discovery.

The emphasis on cutting costs is also problematic. Their systems are more expensive than PCs and not as firmly entrenched as the mainframes.

The continued existence of UNIX systems in very large corporations depends on repeatedly demonstrating that UNIX-based computing offers a better price/performance ratio.

To talk about price/performance ratio, the UNIX people must first explain the performance of their systems. Going into the details of performance, however, gives the UNIX systems a reputation for complexity, and no one is optimistic about putting a genuinely complex system at the fingertips of the company's twenty thousand users.

Apparently, however, this reputation for complexity suits the UNIX people just fine. While everyone around the table wears a pager, only the UNIX people have programmed their systems to phone their beepers with messages about the system's status: the system pages one of the engineers around the table, who then phones the support staff to ask if they're aware of the potential problem.

In California, this would be amusing quirkiness. In New York, dressed in the corporate uniform and seen against the background of mainframe and PC people, it looks vaguely arrogant.

Whatever the appearances may be, however, their enjoyment of technical cleverness links UNIX people in Manhattan with UNIX devotees everywhere (as surely as it puts them at odds with the latest trends in the IT department). They may not always say it well, but the one thing the UNIX people grasp is that neither the CIO nor the IT department can make a system successful. Only the experience of the user can do that.

Yours as ever,
Hapless ■

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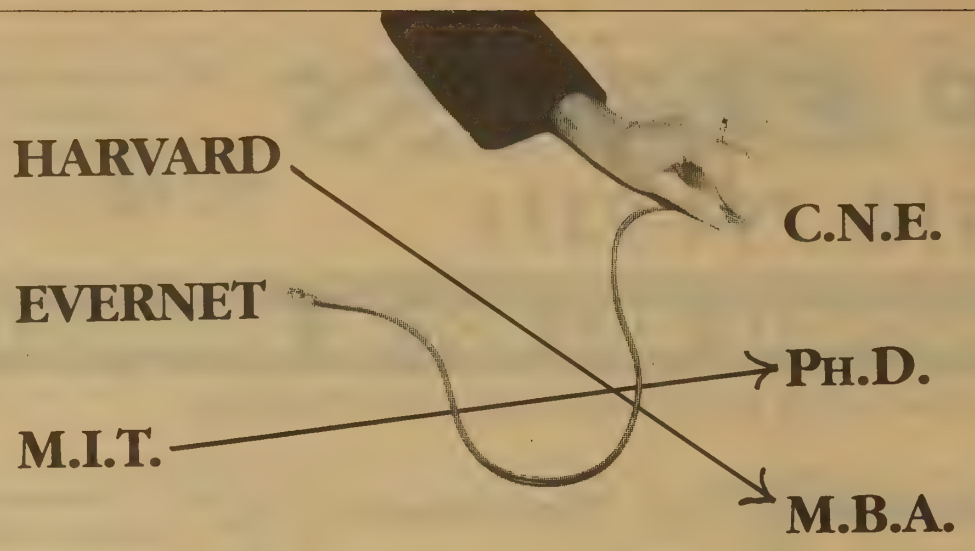
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OS/2 • BY FABIAN PASCAL

Those Irking IRQs—Part 2

Well, just about when I was ready to write this article my old SCSI drive failed. And, of course, that was the drive that contained both bootable partitions—DOS and OS/2—so I had to scramble to get a new drive and recover.

Backups are, of course, essential, and I made sure I had them (see my tape drive review in a previous column). But recovering an OS/2 system is not as simple as in DOS, particularly if you want to preserve customization (such events also put customization in perspective; it's probably best not to overdo it—a good policy for uninstall programs too). I will tell you about the recovery in a future column, but let me now finish what I started last month on ports and IRQs.

Having installed, configured, and tested the QuickPath I/O card for four serial and three parallel ports in DOS, here is what happened under Warp.

Serial Ports

To recall, the hardware setup was:

```
COM1: IRQ4/3F8 external modem
COM2: IRQ3/2F8 disabled (used by SatisFAXtion)
COM3: IRQ11/3E8 free
COM4: IRQ12/180 mouse (2E8 address used by ATI video card)
```

The setup for COM1,2 is the de-facto standard. There are no standard IRQs for COM3,4. COM3 is at its "usual" address, but COM4's usual address (2E8) is used by my video card. By attaching the modems to standard COM1 and COM2 I ensured that any modem or DOS communication software will work (older ones may not accept "nonstandard" addresses and IRQs).

Now, the OS/2 mouse drivers support only COM1 and 2. Consequently, I had to install Warp with the mouse connected to COM1, and for the generic serial mouse driver I ended up with the following statements:

```
DEVICE=D:\OS2\BOOT\POINTDD.SYS
DEVICE=D:\OS2\BOOT\MOUSE.SYS
SERIAL=COM1
DEVICE=D:\OS2\MDOS\VMOUSE.SYS
DEVICE=D:\OS2\BOOT\COM.SYS
DEVICE=D:\OS2\MDOS\VCOM.SYS
```

To release COM1 for the external modem I had to use a third-party OS/2 mouse driver, RODENT.SYS, which can be configured to use any port, address, or IRQ and has additional advantages (see sidebar).

OS/2's serial port driver, COM.SYS, supports and automatically seeks four ports, COM1–4; it assigns port numbers in ascending order of I/O address (3F8h, 2F8h, 3E8h, 2E8h). This means that if, say, you do not have a physical port at 3F8, the

RODENT.SYS

RODENT.SYS is a mouse driver which supports most mice. It provides three-button support. Among the advantages of RODENT.SYS over the IBM mouse drivers (assuming that they even work for your mouse) are...

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* more mice supported using more protocols; some digitizer tablets are also supported.
* auto-detection of the type of mouse and the number of mouse buttons, where possible; and the type of UART (for serial mice).
* support for additional baud rates over the basic 1200 provided by the IBM mouse drivers, up to 19200bps (for those mice which both allow the baud rate to be set and which have a reset function available that returns the mouse to a known state.
* support for using any 8250-compatible UART at any port address and any IRQ.
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* adjustable mouse sensitivity.
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RODENT.SYS, $15
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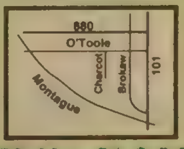

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driver will assign COM1 at 2F8, unless you specify otherwise in the DEVICE statement.

It is, therefore, a good idea to explicitly specify the port, address, and IRQ for ports beyond COM2 if they use "nonstandard" addresses or IRQs (or if you need to "skip" ports). Since the mouse driver must be loaded before the serial port drivers, however, the COM port used by the mouse doesn't have to be so specified, as that would produce a conflict between the serial and mouse driver. Thus, for my Logitech cordless mouse I modified the statements as follows:

```
DEVICE=D:\OS2\BOOT\POINTDD.SYS
DEVICE=E:\DRIVERS\RODENT.SYS PORT=0180 IRQ=12 BUFFERED
RESPONSE=2 DEVICE=D:\OS2\BOOT\MOUSE.SYS TYPE=RODENT$
DEVICE=D:\OS2\MDOS\VMOUSE.SYS
DEVICE=D:\OS2\BOOT\COM.SYS (3,03E8,11)
DEVICE=D:\OS2\MDOS\VCOM.SYS
```

where RODENT.SYS is the replacement driver (note that MOUSE.SYS, the driver Warp installed, is used too).

With this setup I connected the mouse to COM4 and it worked. Having just received a ViVa 28,800bps/V.34 external faxmodem from Computer Peripherals, I connected it to COM1 and it worked too.

I will have more to say about OS/2 fax and fast data communications in general, and about the ViVa modem in particular, in future columns; for now, I will mention that the modem looks good, and its standup desktop position and icon-based LEDs showing its operation are excellent ideas. And unlike other modems I tested, this one worked right out of the box with both DOS (Tapcis) and OS/2 (TE/2) communication software (there is, however, an intermittent quirk with Tapcis and both SatisFAXtion and another modem, but since it does not occur in DOS, it's probably an OS/2 communication problem in VDMs; more of this in the future).

Parallel Ports

From my last column the setup for three parallel ports was:

LPT1: 3BC/IRQ7 laser printer
LPT2: 378/IRQ7 DeskJet 540
LPT3: 278/IRQ5 tape drive (old I/O card)

To recall, this setup avoids interrupt sharing by two ISA I/O cards—the QuickPath and my old 8-bit card. LPT1 and LPT2 still share IRQ7, but they are both on the QuickPath card.

The parallel tape drive on LPT3 works in this configuration. While various OS/2 documents give vague or conflicting information about IRQ sharing in printing, as long as the two printers do not print simultaneously, they work. It would be nice if bidirectionality of the parallel ports were exploited by OS/2 and/or applications but, unfortunately, only Windows printer control utilities do that.

One thing you should be aware of is that in Warp, the default setting for the printer base device driver was changed. Prior to Warp it used IRQs, but it now uses polling. One IBMer explained it as follows:

> "Polling increases throughput performance by eliminating the CPU overhead of an interrupt context switch for each byte printed. Polling can be disabled by placing the /IRQ switch on the PRINT0x.SYS driver in CONFIG.SYS file. If DMA is enabled for the port, then the interrupt method will be used by default."

Frankly, if I don't understand what that means, I doubt that the average end-user will. Here's an explanation I got from Bruce Probst on CompuServe, but it seems to contradict the above explanation with respect to performance:

> "With OS/2 2.x, printing was done by checking IRQs. This meant that there could be *no* hardware conflict of IRQs. If there was a conflict, printing either wouldn't work or would be very, very slow. However, you did have the option of flagging the LPT ports as 'shareable.' This permitted IRQ-conflict, but at a performance penalty. Presumably because this seemed to confuse a lot of people, IBM changed the default with Warp. I guess this will mean fewer people will have 'my printer doesn't work in OS/2!' complaints, but it does mean a performance hit. (I don't know if this means that under Warp the LPT ports are automatically flagged as 'shareable' or not.) Fortunately, you can return to the 2.x way of doing things by modifying your CONFIG.SYS: add the switch '/IRQ' to the line containing the BASEDEV=PRINT01.SYS statement. This will naturally require that there be no IRQ conflicts."

So you'll have to proceed by trial and error—try /IRQ and see what you get.

There are several ways to print in OS/2. The most straightforward—and intended—way is for native WPS applications to give you access to the various printers you have installed. Then you can choose the desired printer on the fly; otherwise the output is sent to the default system printer (as set by either OS/2 or changed by you). But, says Bruce:

> "...it would be my strong suspicion that the 'default printer' setting is ONLY applicable to PM-apps; I haven't yet come across an OS/2 character-mode app that could make any use of the OS/2 printer drivers, for instance... Such apps must either provide their own drivers (just as for character-mode DOS apps), or they just dump their output to the OS/2 spooler."

Some character-based applications do allow you to specify the desired LPT. For example, the OS/2 LJL utility which I use to print files two-up has a command-line switch for that purpose. But those applications that do not offer a choice will end up with LPT1 "...[either because] the spooler object has LPT1 selected as default when receiving print jobs from a non-PM app; if so, it may be working as designed; or [because there] may be a bug in the spooler object... (I'd be inclined to suspect a bug, since the online help for 'default printer object' indicates that it's supposed to be the default for *all* objects that don't have a different default specified.) Or maybe it's just that CMD.EXE, like PRINT, has a built-in default to LPT1."

Be that as it may, if the application does not allow you to specify otherwise, it will print on the LPT1 printer.

The OS/2 PRINT command also "defaults to LPT1, but you can use the /D:LPTx option..." to change that. The /D: switch also applies to PRINT commands issued from VDMs.

Thus, the only problems you may encounter are mostly from older DOS (or OS/2 character-based) applications which either make it cumbersome to specify LPTs—e.g. my DOS word processor, PC-Write, has a separate customizing program with which I can change the LPT—or don't allow it at all.

> It is a good idea to explicitly specify the port, address, and IRQ for ports beyond COM2 if they use "nonstandard" addresses or IRQs (or if you need to "skip" ports).

There was, however, one more problem to resolve before the above setup would work. FaxWorks for OS/2 has a virtual printer driver, FxPrint, used to fax from inside OS/2 and DOS applications, and it attaches to a parallel port. With LPT1-3 already used, FxPrint would have to share a port with either a printer or the tape drive. While this would work as long as FxPrint is not used during printing or backup/restore, there is a neater solution for virtual dri-

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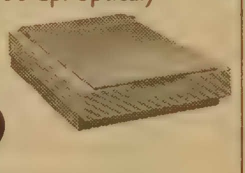

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ArtiScan™ from Tamarack gives you state-of-the-art resolution and impeccable image quality, 600 dpi, 24 bit per pixel (16 million colors and 256 gray levels). Supports both the PC and the Macintosh.

SCSI interface for fast operation.

-with Photoshop 3.0 LE & OCR S/W 600/800/1200 dpi	$485/585/685

DIGITIZERS

Summagraphics

Summasketch III NEW 12"x12" 4-Button Cursor	$279
Summasketch III NEW 12"x18" Pro 4-Button Cursor	$499

IN STOCK

✓Printers

EPSON

Stylus Color InkJet Printer

- 720x720 max resolution
- 48 nozzlels per color
- 240 cps @ 12 cpi
- 5 bitmap, 4 scalable fonts
- 2-year limited warranty

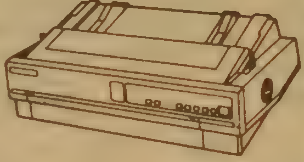
720dpi! Picture-like quality!

$529

LQ-1070 Plus

24-pin Printer

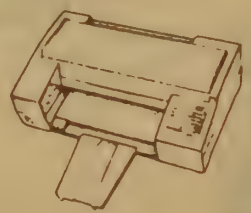
- 135 Column • 11 Fonts
- 2 Scalable Fonts 252 cps Draft Mode 84 cps
- 2-Year Warranty



$379

Stylus 400 InkJet Printer

- 360dpi
- 120 cps printing speed
- 2-year warranty



$199

LQ-570 Plus

- 24 pin, 112 cps, 80 columns
- Four Scalable fonts

$249

LASER PRINTER MEMORY

	1MB	2MB	3MB	4MB
HPII/IID	N/A	$135	$179	$199
HPIIP/III/IIID/IIIP	N/A	135	179	199
Panasonic KX-P4420	N/A	149	189	199
IBM 4019	109	149	315	N/A
Epson EPL-6000	140	155	190	N/A
Epson EPL-7000	N/A	90	140	N/A
Okidata 400/800	100	150	N/A	N/A
Brother HL-4	130	180	230	280

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APC Power Manager	$79
APC Power Manager w/Tel	89
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APC 450VA Back-UPS	199
APC 600VA Back-UPS	249
APC 600VA Smart-UPS	389
APC 900CA Smart-UPS	549

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For Novell NetWare	$89
For OS/2	89
For UNIX/Xenix	129
For Windows NT	89

✓Printers

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DeskJet 540, 600dpi, InkJet (Color Optional)	289
DeskJet 560C, 600dpi, Color InkJet	479
DeskJet 1200c 300dpi, 7ppm, Color Inkjet	969
DeskJet 1200c/PostScript	1529
LaserJet 4MV 600 dpi, 16ppm laser, 12MB	2695
LaserJet 4V 600 dpi, 16ppm laser, 4MB	1849
LaserJet 4ML 300 dpi, 4ppm laser, 4MB	969
LaserJet 4MP 600 dpi, 4ppm laser, 6MB	1315
LaserJet 4M+ 600 dpi, 12ppm, 6MB	1859
LaserJet 4L 300 dpi, 4ppm, 1MB	559
LaserJet 4+ 600dpi, 12ppm, 2MB	1375
LaserJet 4p 600 dpi, 4ppm, 2MB	929
LaserJet 4si 600 dpi, 17ppm, 2MB	2839
LaserJet 4simx 600 dpi 17ppm, 10MB	3989

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HP 92275A HP IIP, IIP+, IIIP	$69
HP 92295A HP IID, II, III, IVD	69
HP 92291A HP IIISi, IVSi	119
HP 92298A HP4 4+, 4P, 4MP	99
HP 92274A HP4L 4ML	69
HP C3900A 4V, 4MV	179

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Developer KX-PDP1	109
Drum KX-PDM1	139

KX-P4420 ACCESSORIES

Toner KX-P451	$39
Developer KX-PDP2	109
Drum KX-PDM2	139

KX-P4410/4430 ACCESSORIES

Toner KX-P453	$39
Developer KX-PDP4	119
Drum KX-PDM4	139
Extra Cassette KX-PKC2	45

Canon

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PJC-4000 Color InkJet

- 720x360 dpi text
- 360x360 dpi graphics
- 16.7 million colors
- 5ppm print speed
- 2-Year limited Warranty

$399

BJC-600E Color 720x360	$499
BJ-10sx Portable	249
BJ-200e **360DPI, 4ppm**	229
BJ-230 110 column 360x360 DPI	399
LBP-1260 Laser 600 DPI, 12PPM	1339

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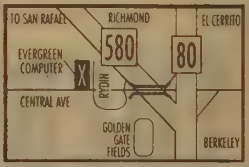

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Intel 486DX2-50
4MB RAM (exp to 32)
Removable 250MB Hard Drive
Active Matrix 256-Color Display
1 Year Warranty

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Intel 486DX4-75
8MB RAM (exp to 32)
Removable 320MB Hard Drive
Active Matrix 256-Color Display
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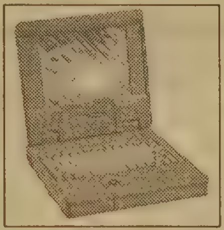
MANY OPTIONS AVAILABLE!

ChemBook 7500 Series Multimedia Notebook Computer



Features:
- Intel 486DX2-66 or 486DX4-100 CPU
- 128K AMI BIOS w/ Password Security
- 4MB RAM On Board, Expandable to 8/12/20/36MB
- 258MB, 2.5" Removable Hard Disk Drive
- 3.5", 1.44MB Floppy Disk Drive Built-in
- Built-in Speakers and Microphone
- Sound Blaster Compatible
- One PCMCIA Type III or Two PCMCIA Type II Slots
- One Serial Port
- One Parallel Port
- SVGA Port (1024x768)
- External Keyboard Connector
- Docking Station Connector
- 2 Hour NiMH Battery Pack
- 86-Key keyboard, Palmrest, and Built-in Trackball
- 2 Hour Fast Charge
- Full Range AC Adapter/Charger (1 lb.)

	DX2-66	DX4-100
Mono 64GX	$1369	$1515
Dual Scan	$1889	$1959
Active Color	$2619	$2689

ChemBook 3600 Series Pentium Multimedia Notebook Computer

Features:
- Intel Pentium CPU
- 128K AMI BIOS w/ Password Security
- 8MB RAM On Board, Expandable to 16/24/40MB
- 258MB, 2.5" Removable Hard Disk Drive
- 3.5", 1.44MB Floppy Disk Drive Built-in
- Built-in Speakers and Microphone
- Sound Blaster Compatible
- One PCMCIA Type III or Two PCMCIA Type II Slots
- One Serial Port
- One Parallel Port
- SVGA Port (1024x768)
- External Keyboard Connector
- Docking Station Connector
- 2 Hour NiMH Battery Pack
- 86-Key keyboard, Palmrest, and Built-in Trackball
- 2 Hour Fast Charge
- Full Range AC Adapter/Charger (1 lb.)

Dual Scan Color 60/66MHz...........$2489/2515
Active Color 60/66MHz.................$2969/2999

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CDR-510 195ms, 450KB/s **$249**

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- Internal Quad Speed, 256K Cache **$389**
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- Software for MAC or IBM
- 300ms/Fast 612Kb/Sec **$959**

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- Up to 18-CD-ROM discs
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TOSHIBA 3501B
- SCSI-II Fast Quad Speed CD-ROM
- 150ms/4.2MB/Sec
- Multi-Spin/Multi-Speed
- 256K Cache Buffer
- Caddy Included

$279

External $349

TEAC
Super Quad 4X Speed
- 600KB/Sec 195ms
- IDE Interface **$189**

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- CDR 55E Double Speed IDE
- 250ms/300KB/Sec................ **$119**

BACK PACK
- External 2X Speed
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Internal Drive........................$129

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Sound Blaster 16 SCSI 2/with ASP	145/195
Sound Blaster 16 Multi CD/with ASP	135/159
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- Quick Installation & Comprehensive User Guides
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- Quad-Speed CD-ROM Drive
- MultiMedia Stereo Speakers
- Controller & Sound Cables

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- **Includes 11 Titles:** Compton's Interactive Encyclopedia 1995, Star Trek 25th Anniversary, Out of this World, Battle Chess, The Lord of the Rings, Castles, Dragon Wars, Tass Times, Wasteland, Mindshadow, & Bard's Tale **$419**

Diamond 6000
Finance & Home Office Kit
- **Includes 6 Titles:** Quicken for Windows Deluxe 4.0, Expresso Calendar, ViSio Home 3.0, Compton's Interactive Encyclopedia 1995, TripMaker, & Action 3.0 **$439**

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Elite Ultra Ethernet

16 Bit 10BaseT or Coax	$109
16 Bit Combo	119
32 Bit EISA Combo	219

Stackable Hubs

12 port Hub	$599
Network management Hubs	419

Twisted Pair Hubs

10 BaseT w/12 RJ45	$599
10 BaseT w/8 RJ45	349

3Com

3C503 Etherlink II, 16bit 10BaseT/Coax	$169/174
3C509 Etherlink III, 10BaseT or Coax	119/539
3C509 Etherlink III, 16bit Combo	119
32bit EISA Etherlink III, 10BaseT or Coax	229
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14.400 PCMCIA Fax Modem Includes X-Jack
- 14.4 BPS, V.42/V.42bis
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- Hot Insertion
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$219

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Seagate 4.3GB SCSI-2

ST15150N FAST SCSI-2

- 4.3GB Capacity Fast SCSI-2 !
- Highest Performance 3.5" discs!
- Fast Average Seek Time of 8ms !
- 1024KB Cache Buffer, 7200RPM !
- Five Year Full Factory Warranty !
- EXTERNAL UNIT $1799

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INTRODUCING THE ALL NEW RECORDABLE CD-ROM DRIVE

NEW!

AN EASY TO USE CD RECORDER/PLAYER THAT STORES UP TO 650MB OFDATA !

Recordable CD

Recordable CD-ROM that allows users to create multimedia titles, data backup archives and custom audio CDs.

NEW! compact disc

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Quantum

MAVERICK IDE & SCSI-2 SERIES					
540MB	IDE	QM30540MVA	14ms	3.5"x1"	$225
540MB	SCSI	QM30540MVS	14ms	3.5"x1"	$228

LIGHTNING IDE & SCSI-2 SERIES					
365MB	IDE	QM30365LTA	11ms	3.5"x1"	$199
540MB	IDE	QM30540LTA	11ms	3.5"x1"	$235
730MB	IDE	QM30730LTA	11ms	3.5"x1"	$299
365MB	SCSI	QM30365LTS	11ms	3.5"x1"	$199
540MB	SCSI	QM30540LTS	11ms	3.5"x1"	$249
730MB	SCSI	QM30730LTS	11ms	3.5"x1"	$299

EMPIRE FAST SCSI-2 SERIES				INT	EXT
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2.1GB	EMP2100S	8.9ms	3.5"	$889	$989

ATLAS FAST SCSI-2 SERIES				INT	EXT
1.08GB	XP31070S	8.5ms	7200RPM	$969	$1069
2.1GB	XP32150S	8.5ms	7200RPM	$1099	$1199
4.3GB	XP34300S	8.5ms	7200RPM	$1699	$1799

Grand Prix FAST SCSI-2 SERIES				INT	EXT
2.1GB	GP32151S	8.5ms	7200RPM	$1099	$1199
4.28GB	GP34301S	8.5ms	7200RPM	$1699	$1799

Maxtor

IDE & ENHANCED IDE DRIVES				
420MB	7420AV	12ms	3.5"x1"	$185
540MB	7540AV	12ms	3.5"x1"	$219
540MB	MXT540A	8.5ms	3.5"x1"	$299
546MB	7546A	12ms	3.5"x1"	$239
850MB	7850A	12ms	3.5"x1"	$269
1.2GB	71260A	<12ms	3.5"x1"	$409

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The Storage Answer

IDE & ENHANCED IDE DRIVES				
420MB	CFS420A	14ms	3.5"x1"	$179
540MB	CFA540A	12ms	3.5"x1"	$209
850MB	CFA850A	<12ms	3.5"x1"	$269
1.27GB	CFA1275A	12ms	3.5"x1"	$425

FAST SCSI-2 DRIVES				INT	EXT
1.0GB	CFP1060S	<12ms	3.5"x1"	$525	$619
2.1GB	CFP2105S	<9ms	5400RPM	$849	$959
2.1GB	CFP2107S	<9ms	7200RPM	$1065	$1169
4.2GB	CFP4207S	<9ms	7200RPM	$1999	$2099

WESTERN DIGITAL

IDE & ENHANCED IDE DRIVES				
420MB	WDAC2420	13ms	3.5"x1"	$185
540MB	WDAC2540	12ms	3.5"x1"	$239
730MB	WDAC2700	10ms	3.5"x1"	$269
850MB	WDAC2850	<10ms	3.5"x1"	$299
1.0GB	WDAC31000	<10ms	3.5"x1"	$409
1.28GB	WDAC31200	<10ms	*NEW*	$459

IBM

IDE DRIVES				
728MB	70G8850	12ms	3.5"x1"	$299
1.0GB	94G3183	12ms	3.5"x1"	$459

FAST SCSI-2DRIVES				INT	EXT
540MB	94G2646	12ms	3.5"x1"	$239	$339
728MB	94G2647	12ms	3.5"x1"	$329	$429
1.0GB	94G3184	10.5ms	3.5"x1"	$529	$629
2.0GB	94G3054	7.5ms	7200RPM	$1229	$1329

FUJITSU

IDE & SCSI-2 PicoBird Series					INT	EXT
530MB	M2684TAU	12ms	3.5"x1"	IDE	$209	$N/A
530MB	M2684SAU	12ms	3.5"x1"	SCSI	$225	$319
1.0GB	M2694ESA	9.5ms	3.5"	SCSI	$499	$599

2.5" NOTEBOOK DRIVES

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209MB	ST9235AG	16ms	IDE	$279
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540MB	ST9655AG	16ms	IDE	$459

Quantum

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514MB	DY514AT	17ms	IDE	$449
256MB	DY256S	17ms	SCSI	$279
514MB	DY514S	17ms	SCSI	$499

TOSHIBA

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$1945

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FAST SCSI-2 DRIVES				INT	EXT
1.0GB	MC4110	8.5ms	3.5"x1"	$599	$699
1.75GB	MC2217	10ms	3.5"	$819	$929
2.0GB	MC4221	8.5ms	3.5"x1"	$1099	$1199
3.0GB	MC1936	13ms	5.25"	$999	$1199
4.0GB	MC3243	8.5ms	3.5"	$1549	$1649
9.1GB	MC1991	11ms	5.25"	$2759	$2959

AUDIO VISUAL SCSI-2 DRIVES				INT	EXT
1.75GB	MC2217AV	10ms	3.5"	$1049	$1149
2.0GB	MC4221AV	8.5ms	3.5"x1"	$1199	$1299
3.0GB	MC1936AV	13ms	5.25"	$1349	$1549
4.0GB	MC3243AV	8.5ms	3.5"	$2099	$2199
9.1GB	MC1991AV	11ms	5.25"	$3249	$3449

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IDE & ENHANCED IDE DRIVES				
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428MB	ST3491A	14ms	Fast ATA	$248
545MB	ST5660A	12ms	Fast ATA-2	$279
850MB	ST5850A	11ms	Fast ATA-2	$299
1.0GB	ST31220A	12ms	Fast ATA-2	$429

FAST SCSI-2 DRIVES				INT	EXT
545MB	ST5660N	12ms	3.5"x1"	$339	$439
1.0GB	ST31230N	10ms	3.5"x1"	$539	$639
1.0GB	ST31250N	8.5ms	3.5"x1"	$739	$839
1.0GB	ST31200N	9ms	3.5"x1"	$Call	$Call
2.1GB	ST12400N	9ms	3.5"	$859	$959
2.1GB	ST32430N	10ms	3.5"x1"	$929	$1029
2.1GB	ST32550N	8ms	3.5"x1"	$1069	$1169
4.3GB	ST15150N	8ms	3.5"	$1699	$1799
4.3GB	ST15230N	9ms	3.5"	$1539	$1639
9.0GB	ST410800N	11.5ms	5.25"	$3199	$3389

HEWLETT PACKARD

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2.1GB	HPC2490	8.9ms	3.5"	$999	$1099

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Seagate

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2.1GB	ST32550W	9ms	3.5"x1"	$1259/ $1649
4.1GB	ST15150W	8ms	3.5"	$1999/$2299
9.0GB	ST410800WD	11.5ms	5.25"	$3599/ $N/A

CONNER

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IBM

1.0GB	45G9486	8.6ms	3.5"x1"	$679/$959
2.0GB	94G3055	FAST	*NEW*	$1399/$1689

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COMPACT disc

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RCD-1000 PC	External with SW for PC	$1945
RCD-1000 PC20	External w/Adaptec Interface	$2049

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The Next Generation of the First Portable Optical Drive

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Sierra 1.3GB

1.3GB Optical Hard Drive Storage System

Sierra1.3 MAC	External 1.3GB for MAC	$2249
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Sierra1.3 PCAN	External for PC (no Interface)	$2289
Sierra1.3 PCI	Internal w/Adaptec Interface	$2249

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Four Drive Multi-channel Optical Disk Systems

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Orray4.8 NOVL	4.8GB System for Novell	$9299

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OMD1300HS	5.25" 1.2GB 1024k Hi Speed (MAC)	$119
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PINNACLE MICRO

Sierra 1.3GB

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- Provides unlimited storage with removable media for on-line,secondary,or archived data.
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- 5 YEAR WARRANTY

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- 5 YEAR WARRANTY

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DC200	16 Bit ISA 4HD/2FD2.88(up to16MB)	$89
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DC420VL	VLB 2HD/2FD 512K (up to 1MB)2S/1P	$99
DC440	BusMaster SCSI/IDE VLB w/IO	$189
DC4030VL2	4HD/2FD 19MB/S Transfer Rate 2.88 Support	$109
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223	32Bit VLB 2HD/2FD 2S/1P/1G	$21
243	32Bit VLB 2HD/2FD 2S/1P/1G **E-IDE**	$49
400	16Bit ISA 2HD/2FD 2-16550S/1EPP/1G	$39
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600	32Bit PCI 2HD 2-16550S/1EPP/1G E-IDE	$54
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21	16Bit ISA BUS 2HD/4FD (2.88 Support)	$59
32	16Bit MultiPort IDE,Floppy,Tape,HiPerf. I/O	$109
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1542CFK	16-Bit BusMaster Fast SCSI-2 KIT/CARD	$235/$199
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2742W	32-Bit WIDE EISA KIT w/WIDE CABLE	$379
2825VL	32-Bit VLB E-IDE/SCSI-2 KIT	$169
2842A-VL	32-Bit Fast SCSI-2 VLB KIT	$259
APA-1460	Slim SCSI PCMCIA KIT **NEW Release**	$199
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T348	Parallel to SCSI Plus 250KB/S	$125
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KT545C	16-Bit ISA BusMaster Fast SCSI-2 KIT	$209
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KT747C	32-Bit EISA Fast SCSI-2 KIT	$299
BT757S	32-Bit EISA Fast Wide SCSI Card	$349
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Q logic

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QLEISA/FL	32-Bit EISA/EISA-FL	$199/$209
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AL6200	32-Bit FastSCSI-2 Caching EISA w/SW	$669
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ALRAID16	Two IN2000's w/ASPI,SCO,NW & Corel	$1199

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4x36/60-70ns	16MB 72 Pin 60 or 70ns w/Parity	$Call
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*KIT Includes(16-Bit card & sw,Microsoft Encyclopedia)

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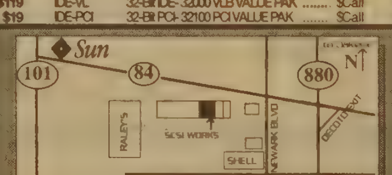

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200MB	(SQ5200C) SCSI KIT INT/EXT	$545/$599

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SQ800	88MB	5.25"	$54/265
SQ310	105MB	3.5"	$58/280
SQ2000	200MB	5.25"	$82/399
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Fuji-DG90M	90 Meter	$13/$55
Sony/HP	120 Meter (DDS-2)	$29/$139
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Exabyte	160 Meter XL up to 7GB	$29/$140

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CMS	350MB Kit w/DT-350 Tape	$49/$235
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Sony	QIC-WIDE QW3010XLF up to850MB	$26/$125
Sony	QIC-WIDE QW3080XLF up to4GB	$33/$160
3M	DC2750/MC3000 (750MB)	$28/$135
EXABYTE	DC2750/MC3000 (750MB)	$30/$145
EXABYTE	MC3000XL (1GB)	$39/$190
3M	MC3000XL (1GB)	$35/$168
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3M	DC2120XL Ximat up 350MB	$25/$120
Maxell	DC-2120 unformatted tapes	$15/$69
Maxell	DC-2120 QIC 80 formatted	$18/$85
Maxell	2120 Cleaning Kit	$22/$100
GIGATEK	DC2120 QIC80 up to250MB	$15/$69
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Sony	QD6525 - 525 MB	$29/$140
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3M/Maxell	DC6250 - 250MB	$22/$99
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3M	Magnus 2.0 - 2.0 GB	$59/$285
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Maxell	DC-9135 - 1.3 GB	$49/$235

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Verbatim/Maxell	230MB 512 bytes/sec	$47/$219
FUJITSU	230MB 512 bytes/sec	$55/$265

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28.8	INT/EXT for PC - V.32 w/V.42	$174/$209
28.8	INT/EXT for PC - V.34 w/V.42	$229/$239
• Courier		
28.8	INT/EXT for PC V.34-V.FC-V.42	$385/$415
19.2	EXT for PC Dual Standard	$369
28.8	PCMCIA V.34 Dual Standard Data/Fax	$469

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EtherLink III - 3C509 Combo Card 16-bit	$139
EtherLink III - 32-bit EISA 10 Base T or Coax	$229

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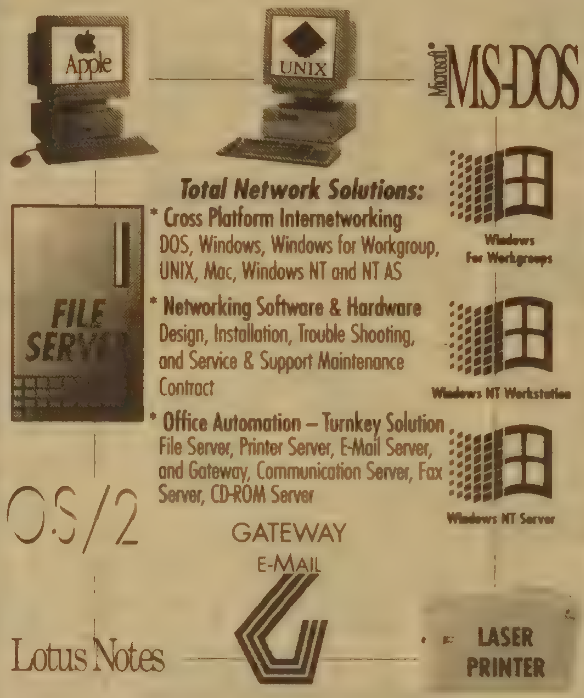

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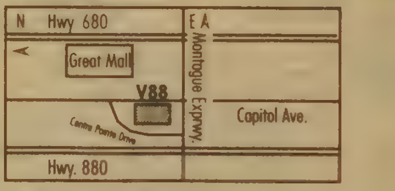

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SMALL OFFICE, HOME OFFICE • BY BIRRELL WALSH

Keeping Track In The Two-Platform Office

Getting Organized With Mac And Windows

In this month's column we have four items. First, we must tell how a Macintosh came into an all-Windows house and this column became "bi-platformic."

Then, since we who have home offices desperately need to keep track of our own work, as no one else is supervising us, we'll look at two software packages for Keeping It All In Order. And we end with a quick glance at a book that will let you get some real use from the Internet.

How Your Correspondent Became Bi-Platformic

Some years ago I made the choice to concentrate on Windows products. I thought the Macintosh was, if not dead, at least badly wounded. This was conventional wisdom at the time among many people working in the business world.

The recent Macworld Expo in San Francisco has changed my mind. There I found both halls of the Moscone Center packed with what I can only call happy fans. Exhibits were jammed into every corner. Very large software companies—including Microsoft—had made very large investments in this show. Every application family was there: business, artistic, scientific, entertainment, and the downright odd.

The clincher for me, though, was the elan and vitality of the crowds. In a day when PC shows tend to be ho-hum-yawn affairs, this was a lively and interested group. The show felt like the Computer Faires of the early '80s. I heard French, German, Japanese, and languages I could not identify from Central Europe. The shoppers were young, middle-aged, and old.

The Macintosh platform had just received three revivifying windfalls. The consortium of Apple, Motorola, and IBM that seemed so improbable a few years ago had delivered the Power PC hardware. Intel had just shot itself in the foot with a botched chip and a botched cleanup; current, cruel Internet humor refers to their replacement chip as the "Repentium." Microsoft seems unable to get Windows 95 to market. All these things were good news for the Macintosh, and Macintosh developers were clearly exploiting their opportunity.

So I thought it wise to obtain a Macintosh. Apple provided one on loan. You are not even to think that this will influence me unduly. Shame on you. The SOHO column is henceforth bi-platformic.

Keeping Track Of It All

Last month we talked about organizing your space to make work possible. This month we look at other kinds of organization you need when you work alone.

In a small office, you may have no boss and no support staff. Bosses can be useful, as they set tasks and monitor results. But what do you do if you are your own boss? Who will nag you when you need nagging? And if you have no clerical help, who will file all those notes and maintain a Rolodex for you?

Both of these tasks can be delegated to your computer.

First Things First—Mac

Jerome Neuman is an independent radio producer. He has been making *Check It Out*, an internationally distributed radio short about libraries, for several years. He does all his research and writing from his home office in Oakland.

Neuman swears by First Things First. He has used its simpler version to keep track of all his to-do's and appointments. He likes the simplicity of the interface: "First Things First does everything I need from a to-do/reminder list," he says. "It's easy to use, flexible, and in-your-face with its insistence that you do things when you intended to do them."

FTF gets its simplicity from being a single-purpose application. It is not a personal information manager that tries to keep track of every person you know; it's for time management only.

First Things First Proactive, a new and extended version that requires System 7 or greater, comes with a booklet on organizing your time. It draws on the wisdom of time management consultant Alan Lakein to help you to plan your future—and then to carry out that plan by doing priority items first. This is not a casual admonition. The booklet guides you through the process of evaluating your life and your long-term goals.

By setting up long-term goals, you can evaluate what you do against them. Does this task seem quite so urgent when you realize it has nothing whatsoever to do with your lifetime objectives? And that job you've been neglecting because everything else has been so pressing—perhaps it is more important than you thought, because it does contribute to your purpose. You do not have to do this soul-searching to use FTFP. But if you do take the time, you find that you can use the program's priority-assigner much more effectively.

The same planning booklet will help you learn how to break major projects down into smaller, manageable steps.

By setting up long-term goals, you can evaluate what you do against them. Does this task seem quite so urgent when you realize it has nothing whatsoever to do with your lifetime objectives?

Small Office, Home Office *continued...*

FTFP has an outline window to make an overview of what you need to do. After you have listed all the tasks and subtasks, you can open up a calendar window, and drag and drop the tasks into the appropriate days of the calendar.

Calendar and to-do lists are schedulable in various ways. You can arrange for reminders of each item at any advance interval you wish. You can make items recurring (daily, weekly, monthly), and you can schedule concurrent events.

FTFP can organize master schedules from subordinate schedules. It can be used on a network (a feature we cannot test, as our office is too small for a network), allowing an office-wide calendar to be made out of the calendars of group members. The product does exactly what it claims to do: it helps you to plan and manage your time. The price is excellent, and those who prefer directness will like FTFP's orderly approach.

InfoSelect—Windows

The Windows world is full of Personal Information Managers.

Having reviewed a number of them, I found that they all were too organized for my style of working. The formats were predefined. The categories of information were set up in advance. This kind of arrangement works for an orderly person. I was more chaotic, with a number of projects in the works at once.

I eventually ran across the ideal information-tracker for the messy-desk type. It is a free-form note-taker that had been successful in the DOS world before it migrated to a graphical environment: Micro Logic's InfoSelect for Windows.

The metaphor in this program is one of stacks of notes. Each "note" in InfoSelect is like a small piece of paper that can hold any kind of written information. This is just like a shoe-box filing system. But the difference in InfoSelect is that you can *find* any note by any text that is written on it, instantly.

You would be amazed how rare it is for flacks to depend on the products they tout. I knew that this program was worthwhile when I found its publicist, Richard Leeds of Computer Product Introductions, actually *uses* it in his small Bellevue, Washington, office.

I have since put all the information for running my own business into InfoSelect files, which are called "stacks." One stack holds references for inclusion in future articles. A second is my "who" file—it has over eleven hundred people I have met in the last five years. A third is "history," for events that I may want to document in the future. Another stack contains markets. Another has recipes, and still another has jokes—InfoSelect serves avocations as well as it does business.

There is no need for a specific format in your notes. But if you want to make a database-like file, you can use field-markers to add structure to the free-form system.

The program can recognize dates, so I use it for a simple tickler. It has a relatively small number of additional features. You can build a mail-merge system to export

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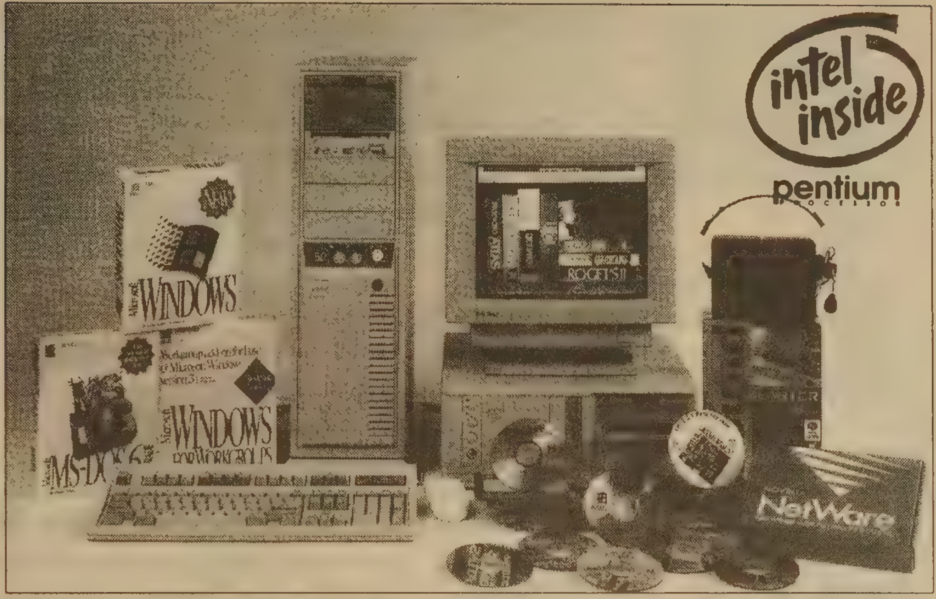

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Small Office, Home Office *continued...*

your files' data. I have been using mailmerge to create bibliographies in the formats demanded by incompatible and intransigent academic consumers. One could as easily use it to manage a mailing list or a parts list.

There are very few font or layout controls. If you want to do extensive format control, you will be exporting things to a word processor.

But InfoSelect is primarily an instant retriever of any information. Because you store most items with one or two keystrokes, and find them literally in a second, you really do use the program. When I find a remarkable quotation on the Internet, I cut and paste it into an InfoSelect stack. I need an address, and I find it in another stack. A business associate needs to find a resource: if I have come across it since acquiring InfoSelect, I still have it; and I can find it before the question is finished.

InfoSelect also serves as my ASCII text editor. I use it more than any other program I own.

Two versions are available. A reduced program (InfoSelect Express) with only one stack of limited size costs $19.95, with an upgrade to the full version for $99.00. The full version with as many stacks as you wish costs $149.95. No, I don't understand the math either. I do recommend getting the full version one way or another, from Micro Logic Corporation or from retailers who may charge even less.

Addictive Book Of The Month

If you thought the Internet was too chaotic and undocumented to be a business resource, think again. In the mail has arrived Harley Hahn and Rick Stout's *The Internet Yellow Pages: Second Edition.* Hahn and Stout are the writing partnership that gave us *The Internet Complete Reference*, so they have good credentials.

I found a well-written, witty compendium of Internet destinations for almost any conceivable purpose. Canadian Football League? Try page 651. Elvis Presley? Look on page 488. Puns? Page 388.

And a solid group of business and financial addresses. You can reach the Small Business Administration by gophering to *sbaonline.sba.gov* (although it was busy when I called). You can get a graph of the current daily Standard & Poor's Index by webbing off to *http://www.secapl.com/secapl/quoteserver/sp500.html* . One can also (it says here) buy and sell on the Internet Relay Chat by

> **Some years ago I made the choice to concentrate on Windows products. I thought the Macintosh was, if not dead, at least badly wounded. This was conventional wisdom at the time among many people working in the business world. The recent Macworld Expo in San Francisco has changed my mind.**

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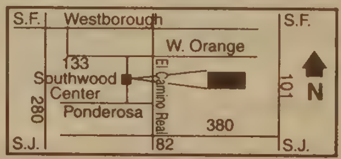

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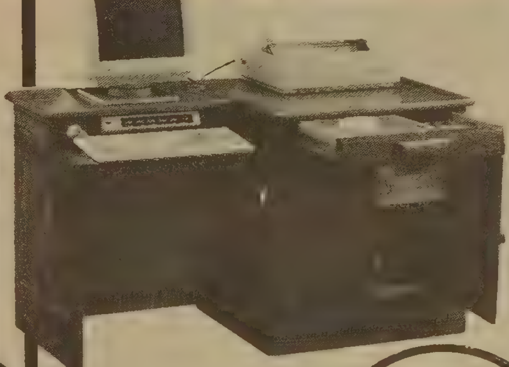

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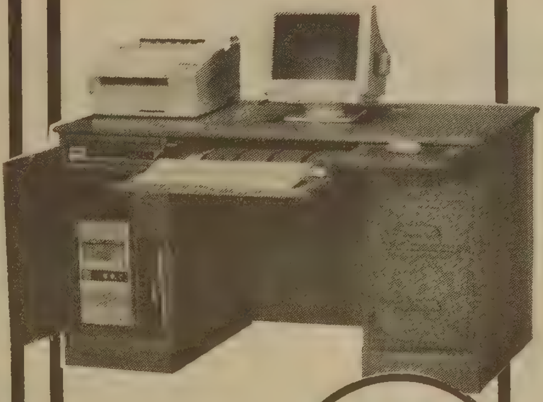

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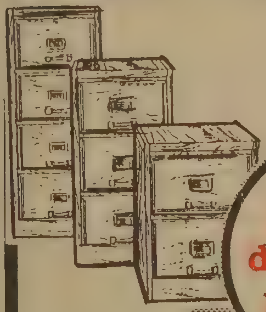

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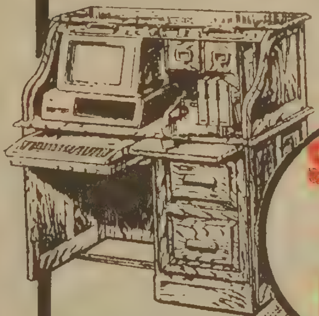

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There are twenty-five pages of "Table of Contents" and fifteen more of index, so you will be likely to find what you want.

People have been saying, "OK, what is the Internet good for?" The *Internet Yellow Pages* lets you know the sort of things you can find out there, and it tells you just where to find them.

But by the time you get to them (says a cynical thought) they may be gone. The Internet is like a dream, with things arising and vanishing away. The *Yellow Pages* seemed like such a good thing that I was suspicious. How could they put together a list of five thousand Internet resources without fudging? Were some of these listings former-but-no-longer sites?

So I ran a little test. I went online on The WELL, where they have quite complete Internet access, and tried out some of the addresses. I picked ten resources at random from the *Yellow Pages*. They ranged from a commercial art gallery to the European Community's eight-language database in Luxembourg. I tried to reach each of them. I am pleased to say that I got through to eight of them. Two were busy, which means that they exist but are inundated with traffic. All ten of the ten resources that I tried were still in service.

It looks as if Hahn and Stout have produced a second masterwork to match their *Internet Complete Reference*. You can buy *The Internet Yellow Pages* (Osborne/McGraw-Hill) for $29.95 in your favorite bookstore. You'll probably save that much in a few days, downloading free information from sites all over the world.

Next month we'll be looking at the programs for the two-platform office. Until then, keep the cat off the printer. ■

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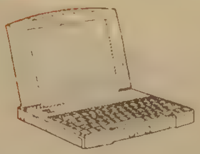

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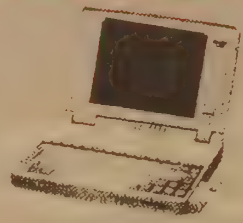

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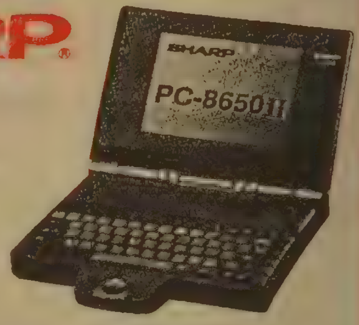

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Two New State Tax Incentives For The Computer Industry

New tax laws rarely come packaged like Cracker Jacks, but the computer industry will find a prize stashed inside this latest pair of tax incentives originally intended to benefit general manufacturing. One exempts equipment including computer hardware and software from sales tax. The other is a California income tax credit for qualified manufacturing and R&D equipment.

Amendments tacked on to recent updates of these rules will serve hardware and software developers, as well as those manufacturing the full range of electronic contraptions, thingies, and gizmos.

Qualified property now includes computer software primarily used for specified purposes, but both incentives are subject to a labyrinth of restrictions concerning exactly who and what qualify.

Requirements for the sales tax exemption and the tax credit are similar, with a few big differences and many little ones. The exemption is available only to new businesses; no such restriction applies to the credit. Also, you can't claim both the credit and the exemption for the same purchase.

Hold on to your eyeshades for a quick tour of eligibility and procedures.

Uses That Count

To claim the sales tax exemption, a qualified person must make the purchase and the product must be put to a qualified use. Among qualified uses of computers and software are the operation of machinery and equipment, manufacturing, and research and development. The sales tax exemption does not apply to property used primarily in administration, general management, or marketing.

Are software development costs considered to be research and development? Maybe. R&D is defined, for this purpose, as those activities that are described in Section 174 of the Internal Revenue Code, or in any regulations thereunder. This Code section defines research and experimental expenditures, and provides favorable tax accounting rules permitting their immediate deductibility. Unfortunately, it fails to specifically address computer software.

The tax treatment of computer development costs as R&D expenditures has a turbulent history. In the 1980s, the IRS twice attempted to establish regulatory clarification on the issue. In both instances the regulations were withdrawn amid controversy.

Way back in '69, the IRS ruled that favorable treatment is available for software development costs—not necessarily as a matter of law or regulation but rather as administrative practice. Late last year, the most recent version of these regulations was finalized, and they don't even mention software development. The old ruling therefore stands unrevoked, albeit not strongly defended (see endbar for reference to the whole story).

Are software development costs considered to be research and development? *Maybe.*

The new tax incentives are state law, and we can only presume that California will follow, at least for the time being, the same administrative practice as the IRS.

Qualified Person

Two conditions determine if you are a qualified person for purposes of the sales tax exemption. You need to pass both.

First, only businesses identified by the 1987 SIC (Standard Industrial Classification) Codes 2000 to 3999 qualify. You can obtain a copy of the *Standard Industrial Classification Manual* from the US Government Printing Office or the reference desk of your local library. These codes are different from the Principal Business Codes used on income tax returns, so don't be confused.

Some computer-related businesses fall within those SIC codes, while others do not. A few examples of qualifying business are manufacturers of computers, logic modules, computer peripherals, computer storage units, and terminals. Nonqualifying businesses include freelance computer software writers, computer wholesalers and retailers, and custom software systems analysts.

But wait—if you're not on the SIC list, consider whether your client or customer is. If the buyer of your product can get the tax exemption, the indirect benefit to you is that you can charge more without bleeding him to death—unless the competition figures things differently.

The sales tax exemption is only available to new businesses, less than thirty-six months old. If the business moved from out-of-state, it must have done so after 1994 to qualify. Special related party rules—ownership tests and legal relationships—need to be considered. For example, if you recently incorporated and believe that makes you a new business, you'll need to include the time you or certain co-owners were in business prior to forming the corporation.

After passing the above tests, there's a little paperwork to do. If the buyer wants that sales tax exemption, she must hand the seller an exemption certificate and fill out a statement representing that the property will be put to qualified use. The exact language is provided in the law (see endbar). The seller then gives the Board of Equalization a copy of the paperwork, with the price of the exempt property.

You're still not home free. If, within a year, the purchaser removes that property from California or converts it to a use that doesn't qualify, the sales tax exemption is retroactively revoked.

Manufacturer's Investment Credit

The other incentive is a tax credit for the purchase of machinery and the software to run it. The credit returns 6% of the cost of qualified property to the taxpayer.

Basically, the rules for claiming the sales tax exemption and the tax credit are similar. An important difference is that old businesses as well as new businesses can qualify for the tax credit.

When structuring a specific transaction, the relevant law should be reviewed carefully (see Resources), since the definitional aspects can be nitpicky.

The earliest you can claim the credit is on your 1995 income tax return. The credit is available for amounts paid or incurred in 1994, but you can't collect until you file your return in 1996. There is nothing to report on your 1994 return. Just flag your tax file to remind you next year about qualified purchases made last year.

The definition of qualified property includes a restriction not found in the sales tax exemption: for the most part, it may only be claimed for property defined in a certain section of the Internal Revenue Code dealing with depreciable equipment and the like (Section 1245(a)). Computer hardware is clearly the type of property covered. As to programming, a special provision okays computer software assuming it is used for a qualified purpose.

The best news about the new rules is that they are short. The sales tax law is two pages. The credit rules are four. The bad news is the hoops and ladders of qualification, and cross-referencing of legal definitions and criteria, that may discourage the layman or small business operation.

Despite clauses that were added to address concerns of the computer industry, the rules are aimed primarily at big manufacturing entities—the kind with in-house tax departments just waiting for something they can analyze, document, justify, and support. Smaller technology concerns and computer professionals may tend to overlook what should be a virtual giveaway and should not be put off by the proverbial red tape.■

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RESOURCES:

Standard Industrial Classification Manual, 1987 edition (US Office of Management and Budget), US Government Printing Office, 710 N. Capital St., N W, Washington, D.C. 20401. Tel (202)512-1800; Fax (202)512-2250

California Revenue & Taxation Code Sections 6377, 17053.49, and 23649 (1994)

Complimentary Reprints

The following reprints are available from David Simon's office in Oakland at (510)893-5753:

"A Tax Break for Your Software R&D" (*MicroTimes*, 1993)

For relevant sections of the State tax code listed under Resources, specify sales tax exemption, tax credit for individuals, and tax credit for corporations.

The authors and publisher assume no responsibility for use or content of this article. Your professional accounting or tax advisor should be consulted on such matters as they apply to your situation.

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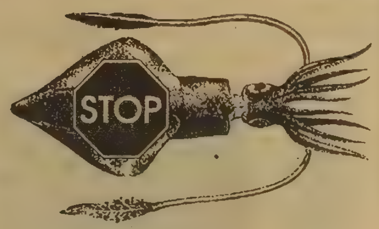

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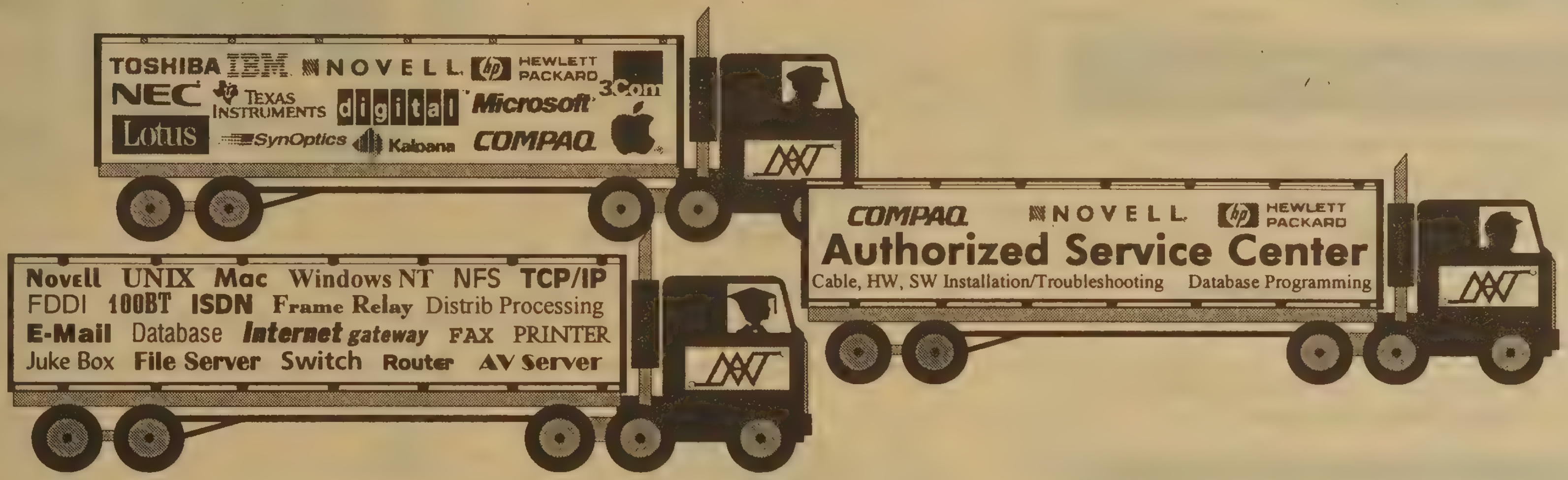

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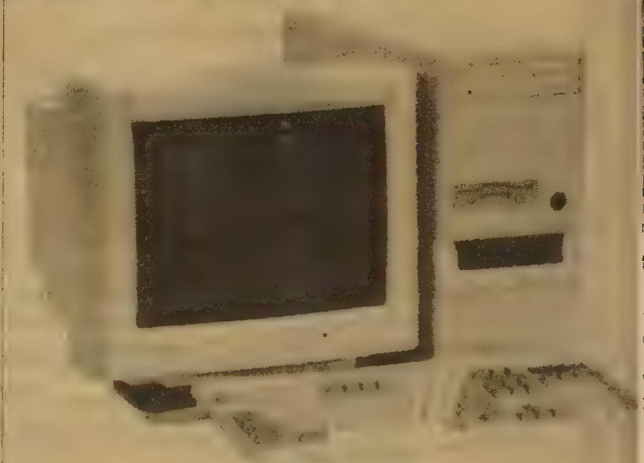

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32+ VLB w/ 1Mb (CL-5428)	$95
256 Cache VLB w/ 1Mb (C&T)	$95
Black Widow+ VLB or PCI w/ 2Mb (AGX016)	$225
64 DRAM VLB or PCI w/ 1Mb (CL-5434)	$98
Tarantula 64 VRAM VLB or PCI w/ 2Mb (S3-964)	$258
Tarantula 64 VRAM VLB or PCI w/ 4Mb (S3-964)	$378

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Graphic Ultra Pro VLB w/ 2Mb Vram (OEM)	$148
Graphic Win Turbo VLB / PCI w/ 2Mb Vram (OEM)	$268
Graphic Win Turbo PCI w/ 4Mb Vram (OEM)	$478
Graphic XPression PCI 2Mb (OEM)	$188
Graphic XPression VLB / PCI 2Mb (Retail)	$208
Graphic Pro Turbo PCI w/ 2Mb Vram (Retail)	$368
Graphic Pro Turbo PCI w/ 4Mb Vram (Retail)	$558

Hercules

Dynamite Stinggray VLB w/ 1Mb	$98
Dynamite Power PCI w/ 2Mb DRAM	$188
Dynamite Graphic Power PCI w/ 2Mb VRAM	$268

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MGA Impression + PCI-2 w/ 2Mb (Retail)	$368

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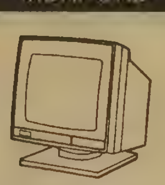
9GXE64 VLB or PCI w/ 2Mb (S3-864)	$228
9GXE64 PRO VLB / PCI w/ 2Mb (S3-964)	$348
9GXE64 PRO VLB / PCI w/ 4Mb (S3-964)	$528

MONITORS



14" (1024 x 768) .28 Non-interlaced	$208
15" (1280 x 1024) .28 Non-interlaced	$288

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15" ACER 56L (1024 x 768) .28 NI 76Hz Refresh	$338
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15" 15SF (1280 x 1024) .25 Non-Interlaced	$418
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Other	$Call

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IDE VLB 2HD, 2FD, 2s, 1p, 1g	$16
AT I/O 2s (16,540 UARTS), 1p, 1g	$12
AT I/O 2s (16,540 UARTS), 1p, 1g	$25
Tyan 1346 IDE VLB 4HD, 2FD, 2s, 1p, 1g (16,550)	$28
Tyan 1342 IDE VLB 4HD, 4FD, 2s, 1p, 1g (16,550)	$38
Tyan 1366 IDE PCI 2HD, 2FD, 2s, 1p, 1g	$38

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2278D IDE VLB 4HD & 2FD 2s, 1p, 1g	$23.95
2130 IDE PCI only	$25
2177 IDE VLB Cache	$108
3270VL SCSI VLB	$98
3274VL Fast SCSI-2 VLB	$188
3130 SCSI PCI	$78

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1542CF w/o Kit (OEM)	$168
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2940 PCI SCSI-2 w/ kit	$268
2940W PCI Fast SCSI w/ kit (OEM)	$238
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2842 VL Fast SCSI-II VESA (OEM)	$198
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BT-946C PCI SCSI-2	$Call

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730Mb EIDE 10ms (WD-2700)	$268
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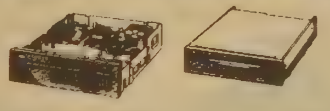

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Sony 55E 2X (IDE)	$113
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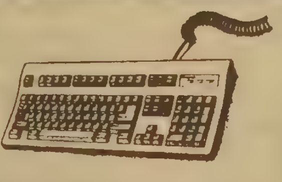
Teac 55A 4X	$198
Toshiba 3501B 4X SCSI-2	$288

KEYBOARDS



Mitsumi 101 Enhanced Keys	$15
Qtronic 101 Enhanced Keys (Black)	$18
Keytronic 101 Enhanced Keys	$25
NMB 101 Enhanced Keys Click	$45
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MouseMan Combo Serial (OEM)	$29.95
MouseMan Combo Bus (OEM)	$45 95
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Logitech First Serial	$25 95
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Logitech TrackMan Combo Serial	$74.95
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Logitech CyberMan 3D Controller	$55.95

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Microsoft Serial Mouse (Ergonomic)	$24 95
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Colorado 350Mb Tape Back-up (Retail Box)	$169.95
Toner HP-92274A	$68
Toner HP-92298A (4-plus)	$118
Toner HP-C43900A (4-V)	$158
HP-51640 Series (Magenta, Cyan, Yellow, Black)	$24.95
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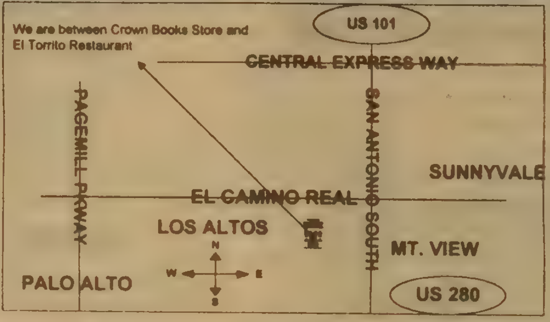

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- 420MB IDE Hard Drive
- VLB IDE I/O Controller
- 2-Serial, 1-Parallel, 1-Game
- VLB Graphic Accelerator 1MB
- 14" 1024x768 SVGA NI 0.28dpi
- Mini Tower Case, 220 Watts PS
- 101 Enhanced Keyboard
- Microsoft Compatible Mouse
- Double Speed CD-ROM Drive
- Sound Blaster 16 Sound Card
- 70Watts Speakers

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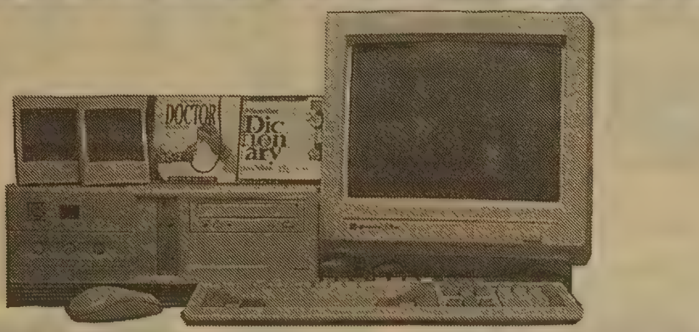

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- **Diamond Stealth 64 PCI 2MB**
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- MID Tower Case, 230 Watts PS
- 101 Keytronic Keyboard
- Microsoft Serial Mouse
- **Zoltrix 14.4 internal high speed modem**
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- **Sound Blaster 16 Sound Card**
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- 2-Serial, 1-Parallel (High Speed UART)
- **Diamond Stealth 64 PCI 2MB**
- **15" 1280x1024 SVGA NI 0.28dpi**
- **Sony 55E 2X CD-ROM**
- **Sound Blaster 16 Stereo Sound Card**
- MID Tower Case, 230 Watts PS
- 70Watts Super Speakers
- 101 Keytronic Keyboard
- Microsoft Serial Mouse
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- Free Mouse Pad
- P90 CPU Cooling Fan

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IQ Level-5 PCI/AT

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- 2-Serial, 1-Parallel (High Speed UART)
- Diamond Stealth 64 PCI 1MB
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- Mini Tower Case, 230 Watts PS
- 101 Keytronic Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- **P90 CPU Cooling Fan**

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Sound Blaster 16 Multi-CD w/ASP	$159
Sound Blaster AWE 32 Basic	Call

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- **Creative Lab Sound Blaster 16**
- **Grolier Encyclopedia**
- **MS-Golf, MS-Dangerous Cretures**
- **Sport Collection, CD Sampler**

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IQ DISCOVERY 4X CD 16 KIT

- **Mitsumi 4X IDE CD-ROM Drive**
- **Creative Lab Sound Blaster 16 MCD**
- **MS-Encarta 95, MS-Works & Money**
- **MS-Dangerous Creatures, MS-Golf**
- **CD Sampler, MS-Scenes Sports Collection**

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MITSUMI (4X IDE CD-ROM) 230ms 600KB/sec Data Transfer Photo CD Compatible, Quad Speed	**$195**
TEAC (4X AT-BUS) 195ms, 600KB/sec Data Transfer Photo CD Compatible, Quad Speed	**$199**
SONY 55S (2X SCSI CD-ROM) 250ms, 300KB/sec Data Transfer Photo CD Compatible, Double Speed	**$180**
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CONNER

IDE	420Mb, 12ms, CFS420A	**$185**
	540Mb, 12ms, CFA540A	$205
SCSI	1.0Gb, 9ms, CFP1060S	**$499int/$599ext**
	2.1Gb, 9ms, CFP2105S	**$920int/$1020ext**

WESTERN DIGITAL

IDE	420Mb, 13ms, WD2420	$189
	540Mb, 12ms, WD2540	$220
	1.08Gb, 10ms, WD3100	$415

QUANTUM

IDE	540Mb, 128K, MV540AT	$205
	730Mb, 11ms LT730AT	$260
SCSI	540Mb, 128K, MV540S	$230
	540Mb, 11ms LT540S	$249
	730Mb, 11ms LT730S	$280
	1.0Gb, 10ms, 512K, PD1080S	**$510int/$610ext**
	2.1Gb, 10ms, 512K, PD2100S	**$925int/$1025ext**

FUJITSU

SCSI	1.2Gb 9.5ms M2694ESA	$499
	1.2Gb 9.5ms M2694EQA (Wide SCSI)	$575

5. CONTROLLERS

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Adaptec 2842 VLB SCSI-II	$210
BusLogic 445s VLB SCSI-II	$195

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Adaptec 2940 PCI/SCSI-II	$199
Adaptec 2940W PCI/SCSI-II	$255

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NOKIA

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ATI UltraPro 32bit 2Mb VRAM	$245
Diamond Stealth 64 4Mb VRAM	Call
Diamond Stealth 64 2Mb VRAM	$285
Matrox Impression 2+ PCI 2Mb VRAM	$355
Matrox Ultima 2 PCI 2Mb	$345
Orchid Kelvin 64bit PCI 2Mb	Call
Orchid Kelvin 64bit PCI 1Mb	$125

VLB

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Pentium 90/100 PCI/ISA w/IDE I/O 256K	$245

ASUS

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486 EISA/VLB w/256K	$280
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101 KeyTronic	Call
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Mini Tower, 220 watts Power Supply	$49
Mid Tower, 230 Watts	Call
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Microsoft Bus Mouse	$54
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Logitech First Mouse (Serial)	$25
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12. MODEMS

Online 9600/2400 FaxModem (int)	$39
Online 14.4 FaxModem (int)	$60
Online 28.8 FaxModem (int)	$105
USRobitics 14.4 (Int)	$95
USRobitics 14.4 (Ext)	$135

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1.2 MB Mitsumi Floppy Drive	$43
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How Big Is The Net Anyway?

A New Estimate Of The Sizes Of The Internet And The Matrix

How many people use the Internet? Businesses make decisions based on answers to this question, and governments decide programs on them.

The Survey

Starting 15 October 1994, Matrix Information and Directory Services and Texas Internet Consulting sent survey questionnaires by electronic mail to most of the domains representing organizations on the Internet, and we tabulated responses received through 15 December 1994. We received 1468 usable responses and used them to estimate the sizes of the Internet and the Matrix as of October 1994.

These are estimates, not exact and definitive figures. However, they are based on a large sample of the organizations (companies, universities, governmental agencies, individuals, etc.) on the Internet. Comparing the domain names of the responses with those of the original survey list, we calculate a confidence interval of about 38%. These are the only estimates of the size of the Internet that, so far as we know, have associated any confidence interval at all.

The Estimates

Different people mean different things when they refer to the Internet. To avoid confusion, we provide definitions along with our estimates.

- For the Core Internet, we estimate 7.8 million users (people) of 2.5 million computers that can *provide* interactive services such as telnet (remote login), FTP (file transfer), or WWW (hypertext), as of October 1994.
- For the Consumer Internet, we estimate 13.5 million users of 3.5 million computers that can *use* the interactive services supplied by the Core Internet, for example people who can use Mosaic or Lynx to browse the World Wide Web, as of October 1994.
- For the Matrix, we estimate 27.5 million users who can exchange electronic mail with other users in the Matrix, as of October 1994.

The Internet And The Matrix

These categories fit inside each other: the Matrix includes the Consumer Internet, which includes the Core Internet. It's like those Russian dolls, where you open up Yeltsin and find Gorbachev, and inside Gorbachev is Brezhnev.

To find which category fits you, apply these simple tests:

- If you can send mail to an address in the Matrix, such as *mids@tic.com*, you're in the Matrix.
- If you can connect with FTP to *ftp.ripe.net*, or use Mosaic or Lynx to reach *http://www.ripe.net*, you are in the Consumer Internet.
- If your computer runs an FTP, telnet, gopher, WWW, or other interactive server that users outside your own organization (your company, university, etc.) can use, then you're in the Core Internet.

The most important distinction is between the Matrix and the Internet. Mail is the simplest and most widely used network service, both on the Internet and on other networks. But it is not the distinctive characteristic of the Internet, since most other networks have it, too. The Internet's interactive services, supported by its TCP/IP protocols, are what distinguish it from other networks. You can access many of those services by mail, even including FTP, gopher, and WWW, but that's a completely different level of convenience, speed, and utility than using them interactively over the Internet itself. WWW by mail is like shopping by mail order catalog, while the Internet is like a big shopping mall.

EACH YEAR THERE ARE AS MANY NEW *people* ON THE INTERNET AS ALL THE *people* ON THE INTERNET THE YEAR BEFORE.

Where Other Networks Fit

We've summarized the host and user estimates for the Internet and the Matrix in Table 1, plus some of the information we used in compiling the estimate for the Matrix.

0. Country estimates by MIDS, from "Matrix Size Update," *Matrix News*, V5, N1, January 1995.

1. Can provide interactive Internet services, such as FTP or WWW. Includes

Table 1: Sizes of the Internet and the Matrix

COUNTRIES[0]	HOSTS	USERS	NETWORK
?	2,500,000	7,800,000	Core Internet[1]
88	3,500,000	13,500,000	Consumer Internet[2]
54	1,481	111,000	BITNET[3]
96	32,000	2,560,000	FidoNet[4]
144	18,800	564,000	UUCP[5]
?	?	8,000,000	Centralized Systems[6]
16	?	27,500,000	The Matrix[7]

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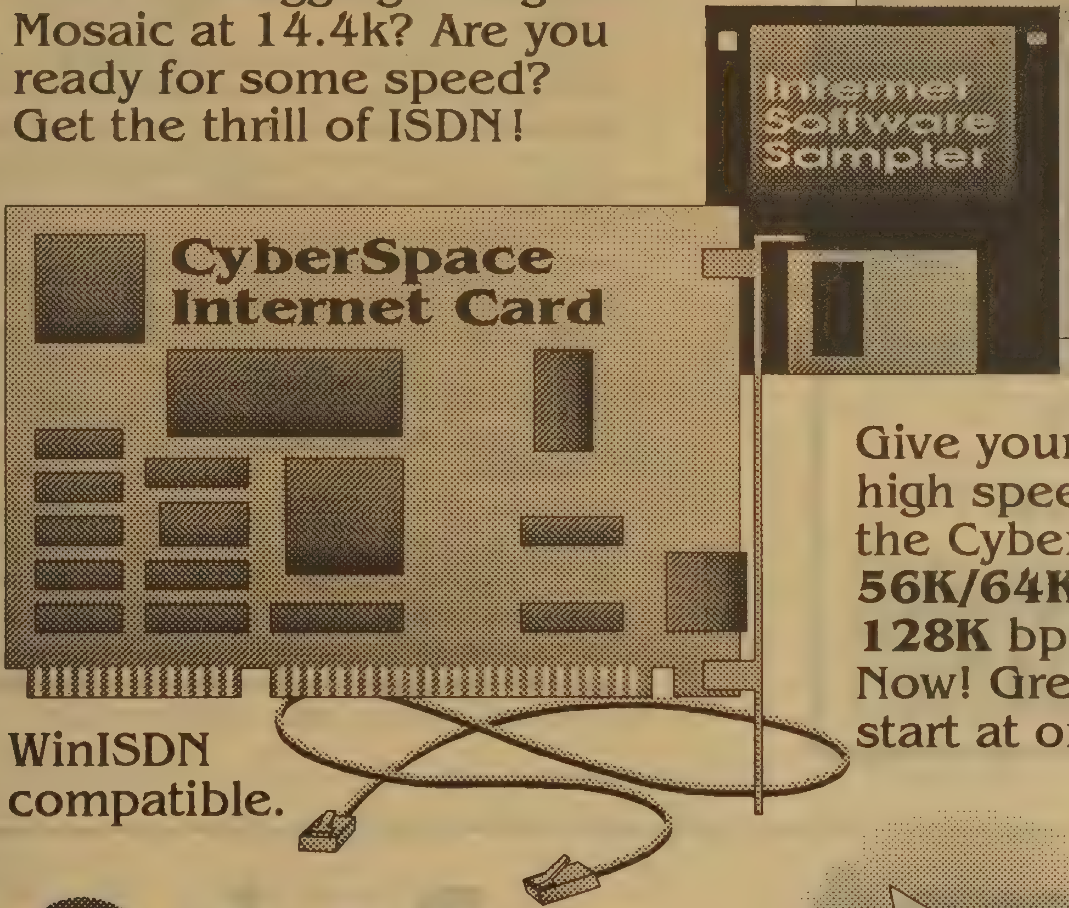

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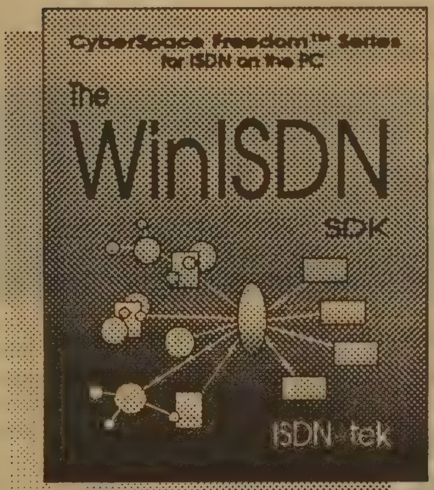

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ROUND TABLE

INTERNET *continued...*

AOL, Delphi, and BIX.

2. Can use interactive Internet services, such as FTP or WWW. Includes 1, plus numerous firewalled enterprise networks.

3. BITEARN host table, courtesy EARN and SURFNET; user estimate by MIDS.

4. FidoNet host table, courtesy Randy Bush; user estimate by MIDS.

5. UUCP map (host table), plus RIO nodelist from ORSTOM, and a few countries from Larry Landweber; user estimate by MIDS.

6. Conferencing and mail systems such as Prodigy, CompuServe, PC VAN, NIFTY-Serve, AT&T Mail, GEnie, etc.

7. Can use electronic mail. Includes 1, 2, 3, 4, 5, and 6. "Preliminary Partial Results of the Second TIC/MIDS Internet Demographic Survey," *Matrix News*, V4, N12, December 1994

What about UUCP, FidoNet, WWIVnet, and BITNET? They're all in the Matrix. These networks are not part of the Internet, although some of their hosts are. We counted their users in our estimate of the size of the Matrix.

What about Prodigy, CompuServe, Nifty-Serve, PC-VAN, AT&T Mail, GEnie, Sprint-Mail, Easy-Link, MCI Mail, and Tymnet? Those ten systems (and quite a few others like them) are all in the Matrix, but not yet on the Internet. We have counted the users of these systems in our estimate for the Matrix. Some of them are moving towards letting their users use interactive Internet services, and when they do, we will start counting those that do as part of the Consumer Internet.

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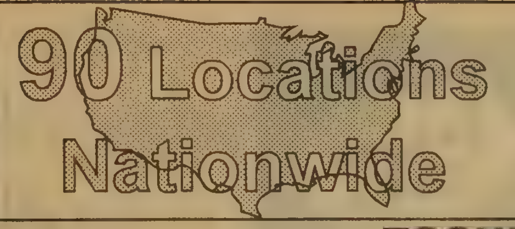

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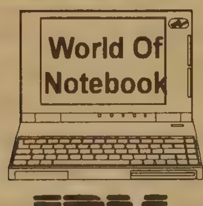

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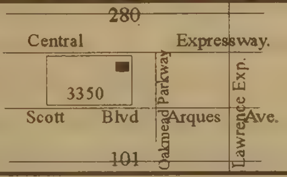

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INTERNET *continued...*

A few similar centralized systems, such as AOL, Delphi, and BIX, already let their users use interactive Internet services, and are therefore on the Internet, and we counted their users in our Consumer Internet user estimate. Some of these three systems may actually be in the Core Internet (Table 1 shows them that way), but until we're sure we are counting them as being in the Consumer Internet.

Other Information From The Survey

The survey questionnaire included many other questions, and we may present the results of more of them in later columns. Here are a few more details for the moment.

Table 2: Speeds of Principal External Connections to the Internet

56 Kbps	18.21%
64 Kbps	18.21%
14.4 Kbps	12.75%
1.544 Mbps	11.64%
9600 bps	6.71%
19.2 Kbps	5.92%
10 Mbps	5.65%
2 Mbps	4.14%
128 Kbps	4.08%
other speed	2.56%
28.8 Kbps	2.37%
512 Kbps	2.24%
256 Kbps	2.10%
100 Mbps	1.25%
45 Mbps	0.66%
2400 bps	0.66%
4800 bps	0.46%
1200 bps	0.26%
10 Gbps	0.07%
274 Mbps	0.07%
1 Gbps	0.00%
100 Gbps	0.00%

It appears the male/female ratio among Internet users is less than 2/1, that is, about 60/40 male/female. That is a much higher proportion of female users than has been reported from other sources. However, we find it quite plausible, simply because of all those students in all those universities.

Another question we asked was about the speed of each organization's connection to the rest of the Internet. As you can see in Table 2, clearly the most popular speeds were 56Kbps and 64Kbps, with 18% each, or 36% of all connections. This is known in telephone parlance as DS-0, and is the bandwidth of a standard voice telephone circuit.

The next most popular speed was 14.4Kbps, with 13%. V.42bis modems are quite popular, it seems, and many organizations use them for their connection to the Internet.

Third most popular is 1.544Mbps, or T-1, with 12%. Adding the 4% for 2Mbps, or E-1, would show this general level of speed more popular than 14.4Kbps. 9600bps follows with 7%, and 19.2 with 6%.

We rather wonder about the organization that reported 10Gbps; we suspect it was a typo. We're also a bit suspicious about all the organizations that reported 10Mbps, since that's of course the nominal bandwidth of Ethernet, and not many Ethernets are actually used for external connections. Similarly for 100Mbps, which is FDDI speed. 28.8Kbps, or V.34bis, is catching on.

Growth And Dates

The exact size of the Internet can only be estimated, but one thing that is known for sure by many different measurements is that the Internet is growing exponentially, approximately doubling in size each year, and has been doing so for at least the past six years now. Each year there are as many new people on the Internet as all the people on the Internet the year before. That's why it is important to cite a date for any estimate of the size of the Internet. Our estimates here are for October 1994.■

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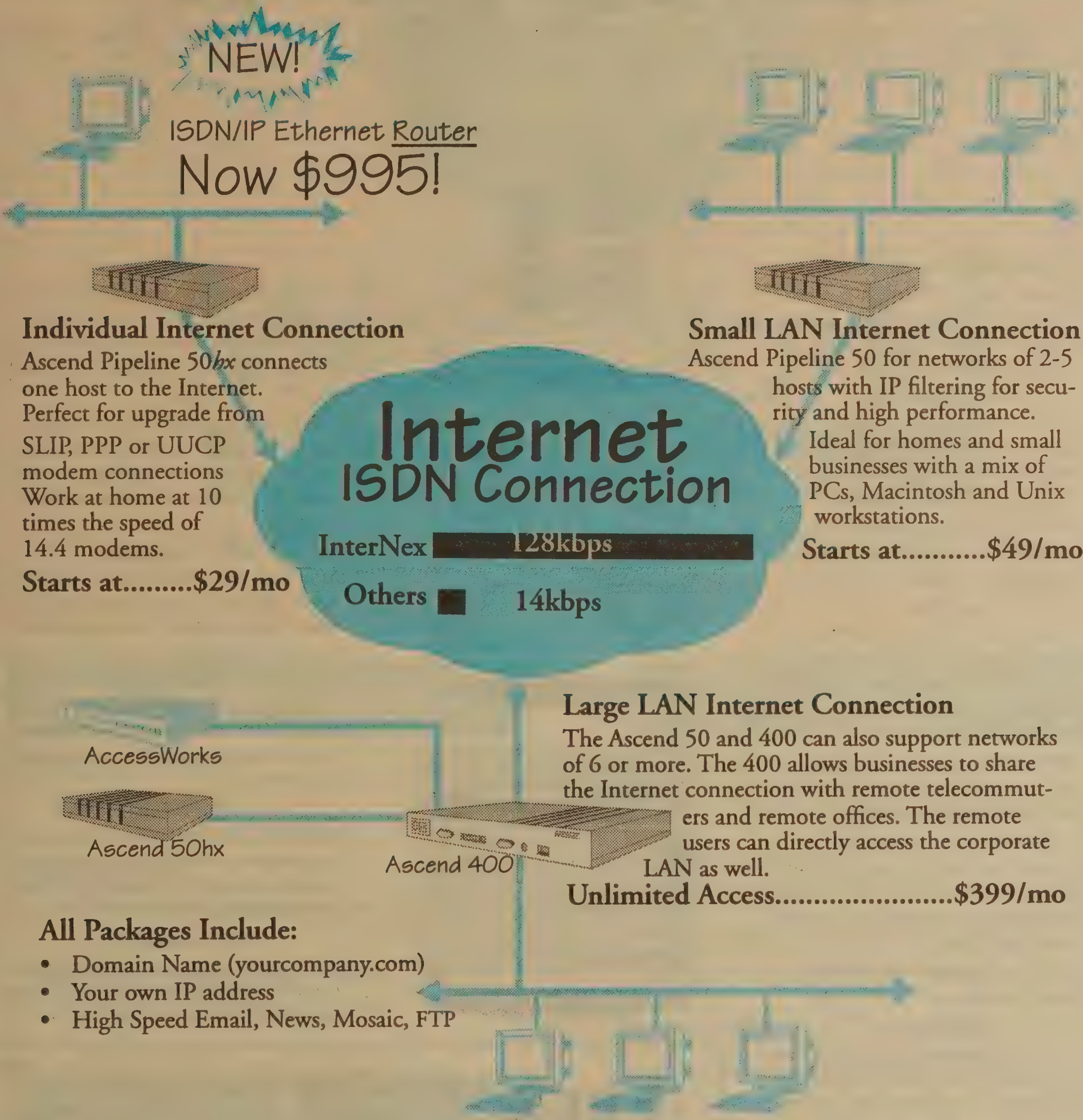

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http://www.bahnware.com/bahnware BahnWare develops WWW solutions for business marketing, distributed engineering, and personal use. Magellan GPS Systems WWW site. [Exp. #139.]

Best Internet Communications, Inc

http://www.best.com Internet service provider information. [Exp. #138.]

Bob Bickford's Home Page

http://www.well.com/Community/rab/index.html The still-evolving home page of Bob Bickford, Professional Wild-Eyed Visionary. [Exp. #138.]

The California Libertarian Party

http://www.lp.org/lp/ca/lpc.html [Exp. #138.]

Career Taxi

http://www.iquest.net/Career_Taxi/taxi.html A forum for the hottest companies to present their home pages and their employment opportunities. [Exp. #139.]

Coolware's Place on the Internet

http://none.coolware.com/ Coolware hosts Good Medicine Magazine and the electronic Job Guide. [Exp. #138.]

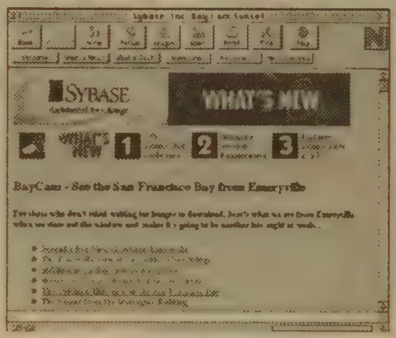
Cool Web Page

http://www.aimnet.com/hia/pcr/home.html For thought-provoking content. [Exp. #139.]

The electronic Gourmet Guide

http://www.deltanet.com/2way/egg The eGG is the Internet's first full-color food magazine featuring interviews, articles, recipes, columns, news, and links. [Exp. #138.]

MOTORCYCLE ONLINE



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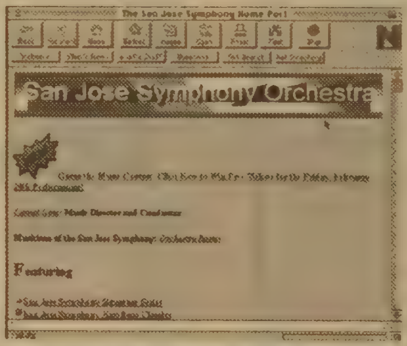

SAN JOSE SYMPHONY

First Virtual

http://www.fv.com/access/by-seller/Internet_Info "New on the Net" report: includes all noteworthy registrations of commercial domains registered with InterNIC. [Exp. #138.]

Flash Sheridan's Newton Software

http://www.rahul.net/flasheridn/ Newton Register allows users to pay for shareware via email. Disabler is a startup manager. [Exp. #139.]

Focus on Africa

http://login.eunet.no/~presno/sample4.html Connectivity issues, sources of information about Africa for various application (news, Web, and gopher servers). [Exp. #138.]

Future New$

http://futurenews.com/wall-street Newsstand focused exclusively on forecasting Wall Street and global financial markets. [Exp. #138.]

GolfWeb

http://www.golfweb.com Complete source for everything related to golf on the WWW: results, statistics, live reporting, course information, more. [Exp. #139.]

Hawaii Made Easy!

http://www.aloha.com/~optunehi Learn about one of the healthiest states, and one of the safest. Many businesses and jobs. [Exp. #139.]

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- Darren New, *First Virtual Holdings Incorporated*
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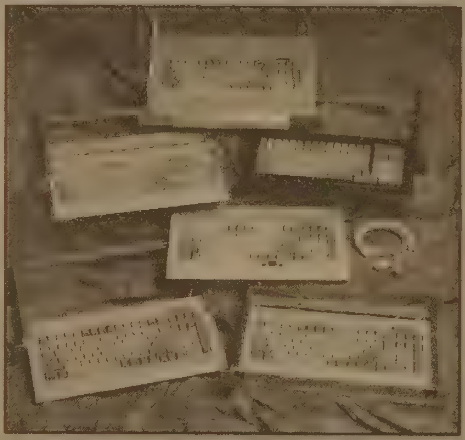

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THE HONG KONG BUSINESS DIRECTORY
http://FarEast.Com/HongKong/directory. html Source products, find manufacturers, locate importers and exporters, find hotels, services, suppliers, buyers, even individuals in Hong Kong. [Exp. #138.]

HOOKED
http://www.hooked.net Hooked is an Internet service provider using the amazing Internaut software. [Exp. #139.]

IMAGO DEI
http://www.art.net/Studios/jaxun/homepage.html An all-digital incarnation of one computer support tech's emerging Muse... [Exp. #139.]

INFOLINK INFORMATION CENTER
http://www.infolink.net/ Fastest-growing Internet service provider in Hong Kong. See how to get connected in Hong Kong. [Exp. #139.]

INFOWERKS
http://www.best.com/infowerk/ Cool students/Web consultants page, artistic, interesting connections. [Exp. #139.]

THE INSTITUTE FOR GLOBAL COMMUNICATIONS PROGRESSIVE DIRECTORY
http://www.igc.apc.org [Exp. #138.]

INTERNAL REVENUE SERVICE
http://www.ustreas.gov/treasury/bureaus/irs/irs.html Provides tax forms, answers to frequently asked questions, where to get more help, and where to file. [Exp. #139.]

INTERNET LITERACY CONSULTANTS
http://www.matisse.net We help people understand and use the Internet and related technologies to accomplish their goals, via seminars and consulting. [Exp. #139.]

INTERNET ROUNDTABLE SOCIETY
http://www.IRSociety.com Providers of business WWW services: home pages, promotion, etc. [Exp. #139.]

INTERNEX INFORMATION SERVICES
http://www.internex.net Premier Internet service provider; high speed (ISDN, frame relay, WWW server). [Exp. #139.]

INTERNOTES
http://www.tbo.com/notes.html [Exp. #138.]

JAPANESE UNDERGROUND TECHNOLOGY
ftp://ftp.netcom.com/pub/ge/geoi310/homepage/a6.html [Exp. #139.]

JOHN PERRY'S HOME PAGE
http://www.perry.com/ I'm B1FF!!! (a film festival), The Liberal Materialists (my band), photos, poetry, and much more. [Exp. #139.]

THE LIBERTARIAN PARTY, AMERICA'S THIRD PARTY
http://www.lp.org/lp/ [Exp. #138.]

MAKIN' WAVES STUDIO
http://cyberzine.org/html/Waves/wavepage.html Aussie-style humor abounds, complete with free .wav sound files for download. Commercial enquiries welcome. [Exp. #138.]

MEXICO OUT OF BALANCE
http://www.igc.apc.org/nacla/mexico.html Hard-to-find, in-depth information and analysis concerning political, economic, labor, and trade issues in Mexico. [Exp. #138.]

MODULUS GRAPHITE
http://www.dnai.com/~modulus Catalog of high-end basses and guitars. [Exp. #138.]

MOTORCYCLE ONLINE
http://motorcycle.com/motorcycle.html Anything and everything to do with motorcycles. [Exp. #139.]

NETBIZ
http://204.188.129.1/NetBiz/netbiz.html Your advertising gateway to the Internet. Home pages and online advertising worldwide. [Exp. #139.]

THE NORTH POLE
http://northpole.net Browse the North Pole; read messages from Santa, his elves, the reindeer; North Pole weather reports. [Exp. #138.]

THE OMEGA TRANSMISSIONS—A TECHNO-THRILLER
http://one.mind.net/omega/index.html An action-packed adventure about NASA's SETI project (Search for Extraterrestrial Intelligence). [Exp. #139.]

OPENMARKET
http://directory.net/netinfo "New on the Net" report: includes all noteworthy registrations of commercial domains registered with InterNIC. [Exp. #138.]

QUOTECOM
http://www.quote.com/ Stock quotes, business news, financial market data for investors. [Exp. #139.]

Randy Ksar's Home Page

http://www.mvhs.edu/~rksar Gives links and documents to those in need of a quick overview of the Web. Also offers Web services. [Exp. #138.]

The San Francisco Network

http://www.SF.net Growing collection of Bay Area databases and newsletters including restaurants, wineries, entertainment, and commercial locations. [Exp. #138.]

San Jose Symphony Home Port

http://webcom.com/~sjsympho/ Meet Maestro Leonid Grin and the 89 musicians of the San Jose Symphony. [Exp. #139.]

San Mateo Times

http://www.baynet.com/smtimes/index.html San Mateo County's only daily newspaper. [Exp. #139.]

Sensational Seminars

http://www.onramp.net/sensational Sensational Seminars, Inc. "We Make Education An Experience" presents "Hollywood In Cyberspace" Monday, April 3, in LA. [Exp. #139.]

The Shaw Festival

http://www.cyberplex.com/CyberPlex/Arts/Shaw/Shaw.html Information about shows currently being performed by the only company that specializes in plays written during G.B. Shaw's lifetime. [Exp. #138.]

The SRMC Spider Web

http://sweb.srmc.com/ Full-service ISP-WWW, 28.8, ISDN through T-1, as well as on-site support and maintenance. [Exp. #139.]

Star Trek: Voyager

http://voyager.paramount.com Latest Web site by Paramount promotes new Star Trek show and connects studio with the fans. [Exp. #138.]

Stowe Mountain Resort

http://www.together.com/sms/stowe Photos, weather maps, snow conditions reports, press releases, lodging information, insider's guides, and special offers. [Exp. #139.]

Sybase Home Page

http://www.sybase.com Info on products and services; views of the San Francisco Bay by clicking on BayCam button. [Exp. #139.]

Tecnation Digital World

http://www.tecnation.com/tecnation/ Tecnation Digital World's online presence. Read about our innovative products and creative services. [Exp. #139.]

Things I'd Like to See in CyberSpace

http://www.clark.net/pub/journalism/wishes.html A simple home page to collect the thoughts and wishes of those using the Internet. [Exp. #139.]

THOMAS

http://thomas.loc.gov US House of Representatives: full text of all bills of 103rd Congress, email addresses, more. [Exp. #139.]

Tim Ho

http://cad.ucla.edu:/~ho A serialized comic strip about a PC computer mouse. [Exp. #139.]

TV Net

http://tvnet.com/TVnet.html TV Net provides information on broadcast/cable TV stations throughout the US and the world. [Exp. #138.]

Uniform Capital Access Network

http://www.ucan.com/ucan/ Offers investors and entrepreneurs the opportunity to explore business prospects. [Exp. #138.]

Vegan Action

http://www.umanitoba.ca/arrs/va/vegan_action.html A nonprofit group providing information on vegan, animal-free diets and lifestyles. [Exp. #139.]

W3-design

http://www.w3-design.com Designers of World Wide Web sites. [Exp. #139.]

WebChat

http://www.IRSociety/WebChat.html Real-time, multimedia chatting on the WWW. [Exp. #139.]

Web World

http://204.188.129.1/webworld/netbiz.html The World Wide Web home page directory lets Netsurfers easily find your home page. [Exp. #139.]

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9.1GB	MC1991	11ms	5.25"	$3399	$3599

AUDIO VISUAL SCSI-2 DRIVES				Internal	External
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ONLINE SERVICES • BY LENNY BAILES

Getting Hooked

Local Bay Area Internet Provider Makes Good

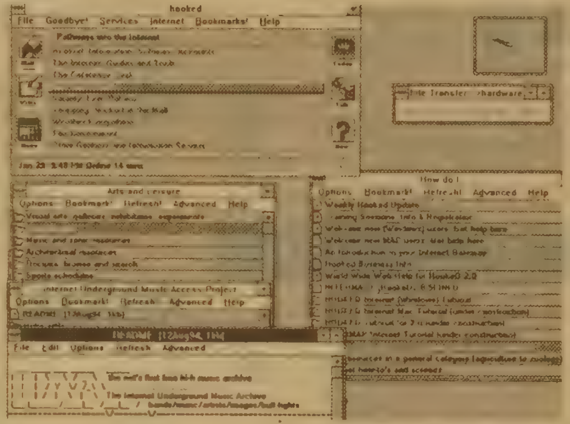
The media-generated interest in the Internet over the last six months has helped create a number of "grassroots" connection services. These wildcat service providers have mushroomed out from New York and California to the less trendy regions in the American heartland.

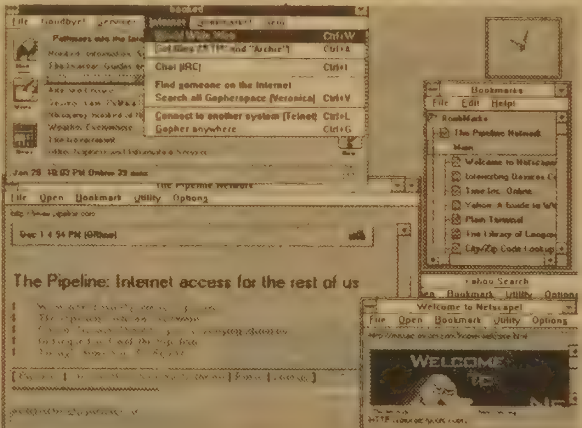
Hooked, Inc. is a Bay Area company that, in 1994, staked its fortune on a revolutionary new interface for accessing the Internet. One year later, hundreds of companies in California are offering similar services. Now, you can walk into any computer bookstore and take your pick of Internet Starter Kit packages—all promising to have you up and running in minutes.

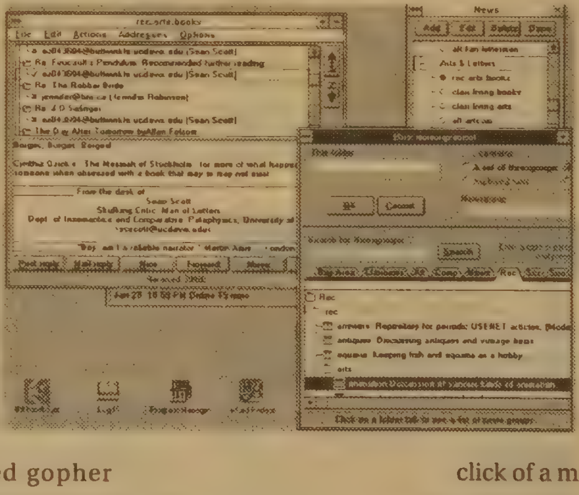
But if you're not already a Net-savvy user, you may find that choosing a service provider and setting up your software takes a bit longer. With most "instant service providers" you need to download third-party utilities, choose a connection type, and fill in a series of Byzantine configuration options: IP address, Name Server, Domain Server, Mail Server, News Server, Net Mask, etc. The selling point of Hooked is its simplicity. This "Internet Made Easy" package really lives up to its advertising promises. If you already have Windows and a modem, you can be up and net-surfing within ten minutes.

Hooked provides instant access to all of the world's gophers, Usenet newsgroups, Internet chat, email, and other Internet services. All features can be selected from clearly labeled menu bars and pulldown menus. (A new beta version of the Hooked interface adds World Wide Web browsing to the other built-in features.)

Another difference between Hooked and its newer competitors is the flexibility offered to subscribers. Experienced Internet users can make Hooked simulate a SLIP connection and choose their own access tools. New users can take advantage of the proprietary Pipeline interface, which makes the Internet as easy to use as a commercial online service.







Pipeline

Pipeline is the brainchild of James Gleick, a programming wizard who also found time, last year, to author a popular biography of physicist Richard Feynman.

Pipeline was, essentially, the first graphic interface for Internet written for a PC environment. It eliminated the need to use commandline UNIX utilities for standard Internet access. Pipeline integrates email, FTP, gophers, Archie, Veronica, and Usenet news into a series of buttons and nested menus. Anyone who's ever used the CompuServe Navigator program will have no trouble adapting to the way Pipeline does things. (The Pipeline interface is now also available for the Macintosh. The most recent version, available in beta, adds a built-in World Wide Web browser to the other menu options.)

Unlike other Web browsers and graphical Internet tools, Pipeline runs without an underlying TCP/IP protocol stack. All you have to do is run INSTALL on a Windows PC or System 7 Mac and you're ready to connect. Pipeline emulates a SLIP connection to the Internet without TCP/IP. You can immediately click on nested gopher menus, read Usenet newsgroups, or use the Web browser, and simultaneously FTP files directly to your computer. The only performance limitations are your available RAM and the speed of the modem connection.

Pipeline lets you perform all of these Internet chores even if you have no idea what's going on at a technical level. The interface makes the Internet as easy to access as a card catalog on a local library terminal.

Seasoned Internet users view this "paint-by-numbers" access as both a strength and a weakness. Certainly, Pipeline makes threading the maze of Usenet newsgroups as painless as possible for a novice. The software comes with a preconfigured "sampler" of newsgroups from a variety of categories. If you click on the Newspaper icon, and select a newsgroup, the Newsreader instantly pops up with a list of recent messages.

The newsgroup subscription feature presents a bird's-eye view of over seven thousand newsgroups, neatly divided into the traditional Usenet categories. You can add groups by performing a subject search, or by scrolling through the lists under the Alt, Rec, Comp, etc. tabs. The newsreader appears to be fairly bug-free, letting you read, respond to, forward, and sort messages at the click of a mouse.

However, the Pipeline newsreader lacks some of the standard options that Usenet junkies are accustomed to, like

PC Magazine's Editor's Choice Awards, "A quantum leap in accessing the Internet."

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EtherExpress 16 MCA	184
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NE2/2C 16-bit MCA	207
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EExpress Pro 10/100 EISA Combo	352
NATIONAL SEMI NF3000-F-1 FDDI ISA Fiber	1,336
NF3000-T-1 FDDI ISA UTP/UTP	956/984
NF3500-F-1 FDDI EISA FIBER	1,230
NETWORTH SwiftNIC 10/100BT PCI/EISA	251/398

Token Ring

3COM Tokenlink III 16/4/10-Pk	260/2,389
TokenLink III EISA 16/4	576
IBM Token Ring 16/4 Adapter II	426
INTEL TokenExpress Pro 16/4	277
PROTEON P1392+ Token Ring 16/4/10-Pk	430/4,049
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3COM TokenLink III PCMCIA TR	415
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NOVELL Lanalyzer for Windows v2.1	1,055
NetWare Management System	1,692
NetWare Management Agent Single/20 Pk	338/5,382
NetWare LANalyzer Agent v1.0 (Single)	1,008
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SABER Lan Workstation 1st node/add 1	129/39

Repeaters

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Token Ring Lan Modem 2-port	1,961
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LANPress THICK/10BT (2 PAR/2SER)	512
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HEWLETT PACKARD JetDirect 10BT/Combo	330/400
JetDirect Token Ring	562
INTEL Netport EL for Ethernet/Token Ring	427/588
NetportExpress XL for Ethernet/Token Ring	475/660
MILAN Fastport 3000 1P/1S, BNC/10BT	459
Fastport 3100	710
Fastport 3500X TR Multi-Protocol	654

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CASTELLE FaxPress 1000, 10BT/BNC	1,576
FaxPress 2000 2-Line/4-Line	2,693/3,493
CHEYENNE FaxServe NLM 5/10/25	259/331/465
FaxServe NLM 50/100/250	599/800/1,135
FaxServe NLM 500/Unlimited	2,005/3,207
INTEL Satisfaxtion Modem 200/400	244/315
Net Satisfaxtion 25 users/1000 Users	780/1,040
DELRINA Winfax Pro for Networks (Server)	125
10/25/100 Users	678/1,492/2,836
Starter Kit (1 Server, 2 nodes)	270
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Novell Software

Lan WorkPlace for DOS Single/10 Users	290/1,445
Lan Workplace for Mac Single/10 Users	289/1,437
Lan WorkGroup-5/10/20 Users	1,125/1,866/2,613
NetWare for Mac v3.12 200 Users/v4.0	685/851
Multiprotocol Router/Router Plus	720/1,032
NetWare NFS Single/5-pk	3,215/10,537
NetWare NFS Starter Kit	1,095
NetWare NFS Gateway 5/10 User	1,040/2,156
Global MHS v2.0 20/50/100 Users	358/648/1,064
MHS v1.5 Network Edition 10 Users	140
MHS Multi-Network Edition 10 Users	140
Personal NetWare Single/5-Users	79/279

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cc:MAIL Desktop-Any Platform	72
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Link to SMTP v2.0/Link to UUCP	2,473/370
MICROSOFT PC Mail Server + 10 Users	485
PC Mail 5/20/100 Users	273/930/3,633
MHS Gateway/PROFS	708/3,405
SMTP/X400 Gateway	3,405/3,405
FAX Gateway	1,419

Network Utilities

BRIGHTWORKS Fusion Software 100-User	1,164
Automatic Inventory 100-User/250 User	534/763
SYMANTEC Anti-Virus for NetWare	889
SABER Server Manager NLM	499
CHEYENNE InocuLAN (20/100/250)	253/387/505
Utils for NetWare	257
COREL Network (RAID/CDROM/OPTICAL sw)	420
FRYE Early Warning System or Lan Directory	339
INTEL LanDesk Virus Protect (Single)	696
LanDesk Virus Protect 4-pk/20-pk	2,070/6,757
MICROTEST Lan Assist/Map Assist	265/360
SYMANTEC Norton Admin. 5/10 Users	247/438
Norton Admin. 25/50/100 Users	1,068/2,028/3,680

Peer-to-Peer Networking

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LANtastic 6.0 Add-On Kit Coax/10BT	131
LANtastic 6.0 Software Single/5/10 User	99/354/637
LANtastic 6.0 Software 25/50 Users	1,272/2,118
LANtastic Managament Serv./Advan	144/578
Central Station NetWare	358
Noderunner SI Coax or TP Combo	124/154
Noderunner/SI Coax/TP (5 pack)	423/440
Lantastic for MAC	433
Lantastic for TCP/IP Single/5 Pk	220/883
CorStream 5/10/25/50 Users	699/1,362/2,209/2,754
NATIONAL SEMI Personal NetWare Starter Kit	260
One Station Expansion Kit	161

Server Mirroring

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NMSL/F Mirror Server Link	1,174
MICRODYNE NMSL/C Mirror Server Link	826
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ONLINE SERVICES *continued...*

the ability to automatically "quote" message excerpts in posts and insert customized taglines.

Pipeline's preconfigured, nested gopher system can be both an asset and a liability. Novices should find it a useful and delightful way to "surf" popular Internet resources and get a taste of all the information that's out there waiting to be harvested. Internet veterans may miss the ability to "jump off the gopher track" and use UNIX search tools not specifically set up on menus.

Pipeline does have the ability to get you to a UNIX command prompt, but not at a site reached through the scroll-box gophers. To issue text commands, you have to start all over again at the Hooked server and telnet or FTP from the command prompt back to the site you want to reach. Experienced users will want to customize Pipeline by creating Bookmarks that quickly jump to gopher-designated sites and search tools.

> Unlike other Web browsers and graphical Internet tools, Pipeline runs without an underlying TCP/IP protocol stack. All you have to do is run INSTALL on a Windows PC or System 7 Mac and you're ready to connect.

On the plus side, I found, in playing with Pipeline, that having telnet, FTP, and Archie tools built into the main menu is more convenient than having to invoke these processes individually from separate programs on my local hard disk or on a remote UNIX server.

Web Access

The Web Browser included in Pipeline, v2.07, is still not quite ready for prime time. It isn't the most full-featured, or sophisticated Web tool available, but it should prove to be adequate for casual users once the bugs are worked out of it. Currently, the option to jump back to previously visited pages doesn't work right, and there is no option to page forward again. There are problems in using the scroll bars to pan down to the bottom of a long page, and difficulties in connecting to common Web servers that are easily accessed through a third-party browser.

The Pipeline browser can display embedded

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Online Services • BY KEVIN M. SAVETZ

Here Come The Knowbots!

Although it sounds like a character from a William Gibson novel, the concept of the "knowbot," an automated program that searches for information for you, is slowly becoming a reality on the Internet. Knowbots stand to change the face of research and information retrieval: Rather than spending hours searching for an electronic needle in a virtual haystack, why not let the information come to you?

I first wrote about a kind of knowbot last year in a *MicroTimes* article about the Stanford Netnews Filtering Service. It's a program that periodically searches the entire Usenet for the information you request and emails any "hits" back to you. (For information about it, send mail to *netnews@db.stanford.edu* with the word "help" in the message body.)

> ***knowbot:*** *an independent, self-acting computer program that seeks for information on behalf of a user, possibly replicating itself on other hosts on the network. As the knowbot performs its task, it sends reports back to the user, and self-destructs when it completes its task.*
>
> —Internet in Plain English *by Bryan Pfaffenberger*

I'm happy to report that the concept and power of knowbots are expanding on the Net. The actual implementations of today's knowbots are decidedly less sexy than the futuristic-sounding self-replicating, auto-destructing knowbot defined above. And they still don't resemble the fancy animated "agents" that Apple Computer predicted in a futuristic promotional video a few years ago. Still, knowbots are very handy as automated news clipping services. Here we'll examine what you can do with two more knowbot utilities—another one from Stanford and one by the folks at *San Jose Mercury News*.

Mercury Center NewsHound

The Mercury Center NewsHound is an easy-to-use news clipping service that offers the first low-cost news search agent aimed at consumers. NewsHound automatically searches the stories and classified ads in the *San Jose Mercury News* as well as hundreds of stories not published in the paper. Articles and ads matching your interests are sent directly to you via email.

Here's how it works: Once you sign up, you send a search request via email to the NewsHound program. Every hour or so, NewsHound checks to see if any of its recent news and ads match your request. It automatically sends the ones that do to you via electronic mail. I use the service to send me articles about online services, my favorite musicians, and ads for used computers. One might also use it to scope out editorials about Newt Gingrich, news about your home town, or ads for used Pintos.

Each request that you submit includes lists of "required" terms, "possible" ones, and "excluded" terms—phrases that you just don't want to hear about. The NewsHound uses a type of fuzzy logic to find the most relevant articles and advertisements. Essentially this involves counting the number of "possible" and "required" terms found in an article and then assigning the article a "selectivity" score. The score of an article ranges from 1 to 100. The higher the number, the more relevant the article.

NewsHound searches a variety of newsy databases in pursuit of your information needs, including the *San Jose Mercury News*, the *Chicago Tribune*, *Detroit Free Press*, *Miami Herald*, *Philadelphia Inquirer*, *The New York Times* News Service, The Associated Press, and PR Newswire as well as published and unpublished articles from sixty other sources, for a total of about two thousand articles each day.

NewsHound isn't free, but it's inexpensive enough to be affordable for just about everyone. The special rate for charter subscribers is $4.95 per month for up to five search profiles. That is a flat rate that applies regardless of the number of stories or ads delivered to your emailbox during the month. (The rate for noncharter subscribers will be $9.95 each month.)

To register to use NewsHound, call 1-800-818-NEWS or (408)297-8495. For

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IBM 486 BL-75/256K VLB	$865
GENOA 486DX2-66/256K PCI	$835
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SYSTEM CONFIGURATION

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- 4 MB RAM 70NS
- 200MB HDD
- 1.44 Floppy Drive
- IDE 2HD/2FD Controller w/ 2S/1P/1G
- 512KB SVGA Card
- 14" SVGA .28 Color Monitor
- 101-Key Enhanced Keyboard
- Enhanced Case w/ Power Supply
- Logitech Compatible Mouse

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• 340MB Hard Drive	Add $45
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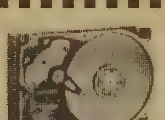
• Double Speed CD-ROM w/ Card	Add $124
• Sound Blaster Pro Deluxe	Add $80



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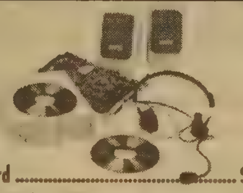

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Sound Blaster Pro Value Edition	$72
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Edutainment CD 16 Upgarde Kit	$376
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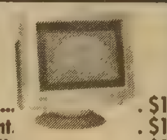

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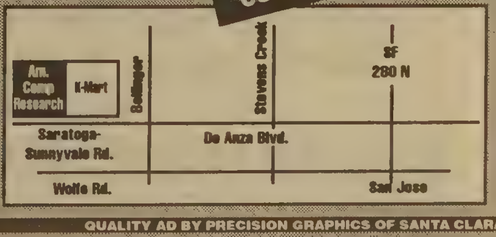

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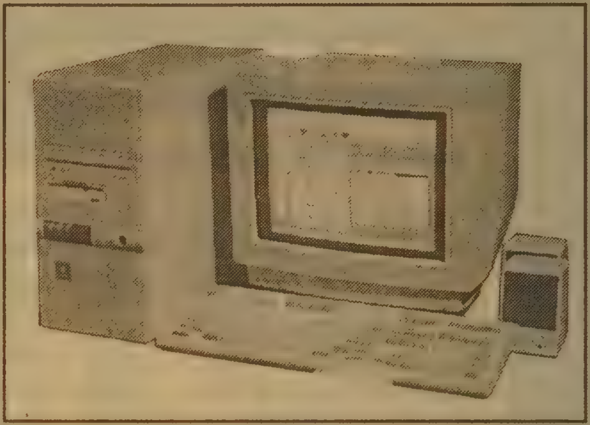
- Keytronic 101 Keyboard
- Mini Tower w/230W Power Supply
- Microsoft Compatible Serial Mouse w/Pad



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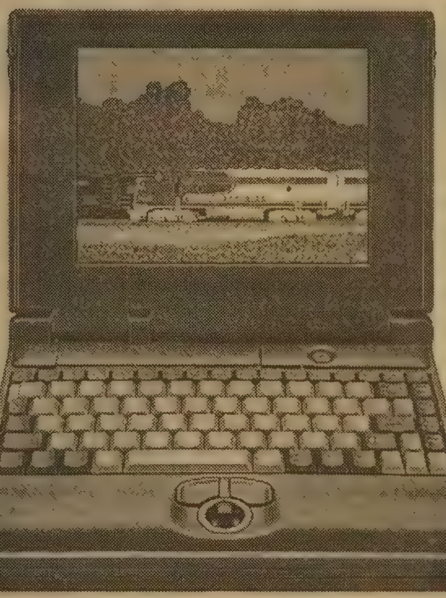

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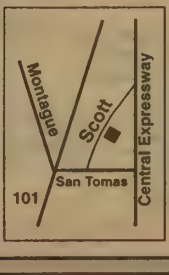

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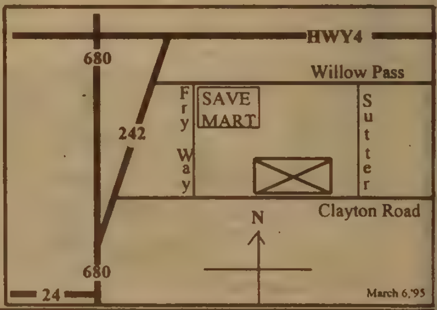

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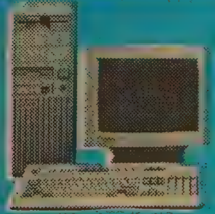

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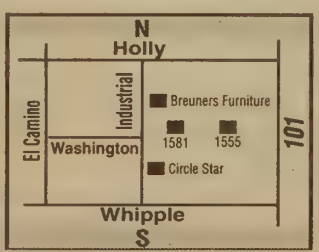

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16Kx4-15	3.50
64x1-20	6.75
64x1-15	8.50
128x8-20	24
128x8-25	22

MATH CO's

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Item	Price
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287XL Intel Tube	49
387SL Intel Tube	49
387SX-26/20/33	49
387SX-25 Cyrix	39
387SX-33 ULSI	34
387DX-20 Intel Tube	26
387DX-25 Intel Tube	35
387DX-33 Intel Tube	45
387DX-40 Cyrix/IIT	39
4167-25/33 Weitek	200/375

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LASER PRINTER MEMORY

Price includes Memory, Board & Installation Instructions

IBM LASER

Item	Price
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4029 (All Model) 4 MB	179

EPSON LASER

Item	Price
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7000-1/2/3 MB	125/149/189
Action LaserII-2/3/5 MB	159/205/299

HP LASER

Item	Price
HPII/IID 2/4 MB Board	$135/219
HP 4/4M 4/8MB	185/345
HP IIP,IIP+,III,IIID,IIIP 1/2/3/4	85/135/155/220
IIsi 4/8 MB	179/345
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Design Jet Plotter 4 MB	185

PANASONIC LASER

Item	Price
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KXP4420/4450/4451 1/2/3/4 MB	95/139/185/245
KXP4450 1 MB	119
KXP4455 2 MB	139

OKI LASER

Item	Price
OL400 1/2 MB Board	$109/139
OL800/820 2/4 MB Board	139/229
OL810 2/3/4 MB Board	159/189/229

QMS LASER

Item	Price
PS 410 2/3/4 MB	$149/195/225
PS 860, 1700 1/4/8 MB	89/133/179
PS 815, 825, 815MR, 2/4/6	168/232/295

SHARP LASER

Item	Price
9500PS 1 MB	$75
JX-9500/9700 1/1.5/2.5/4	110/135/175/245

OTHERS

Item	Price
Apple Laserwriter II/IINT/IINTX 4 MB	$235
Brother HL-4 2/3/4 MB	145/182/235
Brother HL-8E V 1/2 MB	99/139
Compaq Pagemarq 15 & 20 1/4/8	79/139/266
Kyocera F800, F800Am F800T 2/4	95/137
NEC Silentwriter 90/290	109/124
NEC Silentwriter 95 2 MB	109
TI Microlaser 1 MB	98
Packard Bell Video Memory 1 MB	39

DELL MEMORY

Model		P/N	
433P,33P,325P,33D,325D			
	1 MB	310-2505	$89
	4 MB	310-2507	169
433TE, 425TE & Powerline Workstation			
	2 MB	310-2466	$129
	4 MB	310-2467	189
	8 MB	310-2468	349
	16 MB	310-2469	669
Power Desktop 486D, D/33, D/25, D/20, D/66			
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	16 MB	310-2625	669
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LTE 286	1 MB	117081-001	$89
	2 MB	117081-002	125
	4 MB	117081-003	219
SLT 286	1/4 MB	110237-001	99/259
LTE 386S/20	2 MB	12125-001	129
	4 MB	121125-002	195
Contura Lite 20/25			
	2 MB	129769-001	125
	4 MB	129769-002	235
	8 MB	129769-003	395
Portable 386	1 MB	107651-001	125
	4 MB	107653-001	310
Portable III	2 MB	10-7332-001	125
	EBD	167811-001	225
SLT 386	2 MB	118304-001	145
	4 MB	118305-001	225
Deskpro 386S (E. Board)			
	4 MB	11364-001	285
	4 MB	112534-001	189
Deskpro 386/33L, 486/33L, 50/25			
	2 MB	115144-001	145
	8 MB	116561-001	375
	32 MB	116568-001	1475
Deskpro 386/20e, 25e (E. Board)			
	4 MB	113645-001	285
Deskpro 386/20,20e,25e			
	4 MB	113132-001	199
Deskpro 286N, 386N, 386SX/20, 386/25M, 486/33M, 486S/25M, 486S/16M			
	2 MB	118689-001	189
	4 MB	118690-001	345
	8 MB	128877-001	395
Deskpro 486/33L, 486/50L, 386/33L			CALL
Prolinea 3/255 & 3/252S			
	2 MB	141738-001	135
	8 MB	141742-001	315
Prolinea 4/33	2 MB	141682-001	125
	4 MB	141684-001	189
	8 MB	141685-001	345
Other Models			CALL

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Model	Memory	Price
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T5100, T3100, T1600	2 MB	139
T3100SX	2/4 MB	135/199
T3200SX, SXC	2/4 MB	125/199
T4400SX, SXC, T6400	2/4 MB	135/249
T4500/4600/4800, T1900/1910, T1950/C 3.3 Volts	8/16 MB	395/769
T3300SL	2/4/6 MB	135/210/299
T3100	2 MB	135
T2200SX, SXE, T1000LE	2/4/8MB	135/210/379
T1800 Satelite	2/4/8 MB	135/210/379

NEC MEMORY

Model	Memory	Price
Prospeed 286, 386SX/16	1/2/4 MB	$125/185/269
Prospeed 386	2/4 MB	189/475
Prospeed SX/20	1/4 MB	125/249
Powermate 386/25S	2/8MB	139/369
Powermate 486/25E, 486/33I	2/8 MB	135/365
Powermate Express Series	1/4/16 MB	135/225/689
Other Models		CALL

NOTEBOOK MEMORY

Model	Memory	Price
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Altima LSX	2/4 MB	165/249
AST Premium Exec	1/4 MB	119/245
AST Power Exec 3/25	4/8/16 MB	CALL
Compaq Contura Lite 20/25	2/4/8 MB	135/245/395
Chaplet Notebook	2/4 MB	155/249
Chicony 386SX	4 MB	198
Chicony 386SL/25	2/4 MB	149/229
DECPC 320P	2/4/6 MB	195/269/389
DELL 320N &212N	1/2 MB	99/125
DELL 320N, NC	2 MB	139
DELL 325N, NC	2 MB	179
DELL NL25, NL20	2 MB	179
Epson NBS3	1/4 MB	98/225
Everex Tempo LX	2 MB	135
HP 95LX	1/2 MB	159/279
IBM L40SX, N33/SX	2/4/8 MB	99/189/389
IBM N51SX & SLC	1/4/8 MB	99/155/299
IBM PS/2 N45 SI	2 MB	179
MAC PB 160, 180	6/10 MB	249/425
MAC PB 140, 170	2/4/6 MB	89/175/229
MAC PB 100	2/4/6 MB	89/179/239
Magnavox Metalis 386SX	4 MB	199
NEC Ultralite 286F	1/4 MB	99/199
Packard Bell 386SX	1/4 MB	99/229
Panasonic CF 170/270/370	1/2 MB	85/129
Sharp PC 8501	2 MB	135
Sharp 678/6881	2 MB	129
Sampo NB SX/26, SX/25	2/4 MB	145/225
TI Travelmate 2000	1 MB	129
TI Travelmate 3000	2 MB	135
TI Travelmate 4000	4 MB	229
Zenith Turbosport 386 E	1/4 MB	125/325
Zenith Supersport SX	2 MB	189
Zenith Mastersport	2 MB	189

IBM PS/2 & PS/1 MEMORY

Model	Memory	Price
PS/1 286/386SX	2/4 MB	$135/225
PS/1 Consultant Essential/Expert	1/2/4/8 MB	79/125/189/320
386 Valuepoint	2/4/8 MB	99/179/325
486 Valuepoint	4/16 MB	189/595
PS/2 30-286	2 MB	129
50Z, 55SX, 65SX, 70	2/4 MB	99/179
40SX, 35SX,35SL	2/4 MB	99/179
70A21, A61, 121	2 MB	135
80-11, 121, 311	4 MB	245
95, 90, P75, PS/1 Pro	2/4/8 MB	135/129/335
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RISC 6000	16/32/64 MB	745/1490/2890
Other Models		CALL

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Bravo 486/25 & 4/33	2/8 MB	135/345
Bravo 486LC	4/8/16 MB	189/325/595
Cupid-32 Board	0K	239
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Premium SE 450	4 MB	189
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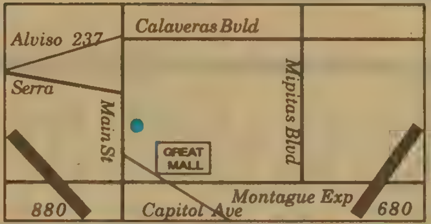

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Intel Pentium P5-90/256K PCI	$988
Intel Pentium P5-75/256K PCI	$656
Opti Pentium P5-66/256K PCI+VLB	$451
Opti Pentium P5-60/256K PCI+VLB	$420
Genoa 486DX2-66/256K PCI (Intel)	$341
Genoa 486DX4-100/256K VLB (Intel)	$365
Genoa 486DX4-100/256K VLB (AMD)	$329
Genoa 486DX2-80/256K VLB (AMD)	$248
Genoa 486DX2-66/256K VLB (Intel)	$278
IBM 486SLC2-66/64K VLB w/Mathco	$132
SIS Pentium P5-100/256K PCI w/ide pci	$898
SIS Pentium P5-90/256K PCI w/ide pci	$846
SIS Pentium P5-75/256K PCI w/ide pci	$518
SIS Pentium P5-66/256K PCI w/ide pci	$467
SIS Pentium P5-60/256K PCI w/ide pci	$435
486DX4-100/256K PCI (Intel)	$359
486DX4-100/256K VLB (Intel)	$336
486DX2-66/256K VLB (Intel)	$259
486DX-33/256K VLB (Intel)	$196
486SX-25/0K VLB (Intel)	$122
486DX4-100/256K PCI (AMD)	$323
486DX4-100/256K VLB (AMD)	$300
486DX2-80/256K VLB (AMD)	$215

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Intel Pentium P5-90/256K PCI	$1617
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Opti Pentium P5-66/256K PCI+VLB	$1076
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Genoa 486DX2-66/256K PCI (Intel)	$967
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SIS Pentium P5-66/256K PCI w/ pci ide	$1092
SIS Pentium P5-60/256K PCI w/ pci ide	$1060
486DX4-100/256K PCI (Intel)	$984
486DX4-100/256K VLB (Intel)	$962
486DX2-66/256K VLB (Intel)	$886
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486DX4-100/256K PCI (AMD)	$949
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- ◆ 101 Enhanced Keyboard
- ◆ Microsoft Compatible Mouse w/ Pad
- ◆ Free CPU Fan

486DX4-100(Intel)	$1017
486DX4-100(AMD)	$979
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486DX2-80(AMD)	$897

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  - Windows Accelerator
  - 16.7 Million Colors
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- ◆ 14" SVGA (1024 x 768, .28dp)
  - non-interlaced, energy saver
- ◆ 420 MB Hard Drive
- ◆ Mini tower Case w/ 230W
- ◆ 101 Enhanced Keyboard
- ◆ Microsoft Compatible Mouse w/ Pad
- ◆ Free CPU Fan

486DX4-100 (Intel)	$1177
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- ◆ Free CPU Fan

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540mb/14ms (SCSI)	213
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730mb/12ms (SCSI)	259
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730mb/10ms (IDE)	265
1.0 GB/10ms (IDE)	398

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Adaptec SCSI 1542CF/1542CF w/Kit	168/239
Adaptec EISA SCSI 2742T/2742T w/Kit	225/345
Adaptec SCSI PCI 2940 w/Kit OEM/ 2940W	200/270
Adaptec SCSI 2842A-VL OEM	205

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A486DX2-80 W/256K Super Mini-Tower w/230W PS 4 MB RAM VLB Enhanced IDE I/O 1.44 MB FDD 420 MB HDD IDE VLB 1 MB SVGA Card 14" SVGA Monitor 101 KeyBoard, Serial Mouse 9600/2400 SendFax/Modem SONY 2X CD-ROM 16 Bit Sound Card MS DOS 6.22 and Win 3.1 Gr. Encyclopedia, Mavis Typing Chess + 3 Titles	A486DX4-100 W/256K Super Mini-Tower w/230W PS 4 MB RAM VLB Enhanced IDE I/O 1.44 MB FDD 540 MB HDD IDE VLB 1 MB SVGA Card 14" .28 NI SVGA Monitor 101 KeyBoard, Serial Mouse 9600/2400 SendFax/Modem SONY 2X CD-ROM 16 Bit Sound Card MS DOS 6.22 and Win 3.1 MS Works and Money	PentiumI 66 MHz w/256K Super Mini-Tower w/230W PS 8 MB RAM PCI Enhanced w/Fast I/O 1.44 MB FDD 540 MB HDD IDE PCI 1 MB SVGA Card 15" .28 NI Monitor 101 KeyBoard, Serial Mouse 14400 Fax/Modem Internal SONY 2X CD-ROM SoundBlaster 16 MS DOS 6.22 and Win 3.1 MS Office Pro 4.3	PentiumE 90 MHz w/256K Medium Tower w/230W PS 8 MB RAM PCI Enhanced w/Fast I/O 1.44 MB FDD 850 MB HDD IDE Diamond PCI 2 MB DRAM Card 15" .28 NI Monitor KeyTronics K/B, LogiTech Mous 14400/28800 Fax/Modem Interna Mitsumi 4X CD-ROM SoundBlaster 16 MS DOS 6.22 and Win 3.1	DualPentium 90 MHz w/512K Full Tower w/250W PS 16 MB RAM PCI SCSI w/Fast I/O 1.44 MB FDD 1 GB Fast SCSI-2 HDD Diamond 64 PCI 4 MB VRAM 17" .26 1600x1280 Monitor KeyTronics K/B, MS Serial Mouse 14400/28800 Fax/Modem Internal Toshiba 4X SCSI CD-ROM SoundBlaster 16 MS DOS 6.22 and Win 3.1
$1,175	$1,295	$2,045	$2,445	$4,465

Export-Quality System

Min Qty 5 reqd

Intel Pentium 66 MHz CPU
256 External Cache
PCI/ISA Motherboard
CPU Heat Sink and FAN
Baby AT Case w/230W PS
8 MB RAM
IDE ISA Card w/2SPG
1.44 MB YE Data Fast FDD
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101 K/B (Most Languages)
(Some Language K/B Extra $$)
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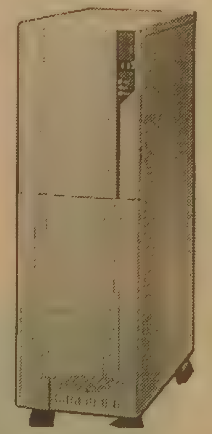
The Thoroughbred Workstations



Hardware platform for Multiple Operating Systems... and Applications demanding Workstation Power... AutoCad, P-CAD, Windows NT

ASA... ...Proven Systems for all Applications

System Pricing

TYPE OF SYSTEM	BUS Structure	BareBone:	Complete Systems					
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DualPentium90 512K	PCI	$1,886	PCI Systems include PCI IDE Controller and CL5434 1MB PCI Graphic Card				$2,816	$3,119
PentiumT 90 512k	PCI, EISA	$1,225	VLB Systems include VLB IDE Controller and Cirrus Logic 5428 1MB VLB Graphic Card				$2,155	$2,458
PentiumE 90 w/256k	PCI, VLB	$957	CPUs: A - AMD; C - Cyrix; I - IBM; i - Intel; Nx - NexGen			$1,766	$1,887	$2,190
PentiumI 66 w/256k	PCI	$643			$1,223	$1,438	$1,558	$1,862
PentiumB 66 w/256k	PCI	$537			$1,117	$1,332	$1,452	
A486DX4-100 w/256	ISA, VLB	$420		$919	$992	$1,199	$1,320	
A486DX2-80 w/256K	ISA, VLB	$335		$834	$907	$1,114		
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ISA 486DX-40 256k Cyrix/AMD	$176/238
ISA 486DX-50 256K Cyrix/Intel	$300/367
ISA486DX2-50 256k C/AMD/Intel	$161/244/227
ISA 486DX2-66 w/256k AMD/Intel	$223/273
EISA 486DX-50 Intel/Cyrix w/256k	$490/423

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MetngO 486DX-33 256k Intel	$213
MustangO 486DX-40 256K Cyx/AMD	$193/255
MustangO 486DX-50 256k Cyx/Intel	$316/384
MustangO 486DX2-50w/256K Cyrix/AMD/Intel	$177/260/244
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MustangO 486 256k AMD DX2-80	$244
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Intel PENTIUM and DX-4

MustangO486DX4-100 Int/AMD 256K	$475/329
CapricornE 256k PCI 60/66MHz	$586/606
CapricornE 256K PCI 90MHz	$837
CapricornSM 512K PCI/VLB 60/66	$665/685
CapricornSM 512k PCI/VLB 90Mhz	$905
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Capricorn I 256k PCI/ISA 90 w/ide-io	$956
PegasusAD Dual PCI/EISA 256K 90	$1384

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Mustang IDE 2FD-2HD/4FD-2HD	$14/28
Mustang IDE w/ 2SPG	$15
FAST-PIG IDE,IO/IO w/16C550 Uarts	$33/27
ULTRA-IO 4S/2P 4 16C550 Bi-Dir	$90

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Future Domain Compatible16 bit no floppy	$45
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ADAP 1542C+ Kit (w/Corel SCSI)	$317
ADAP 1742 EISA	$354
ADAP 2742 EISA Fast SCSI2 C/K	$304/354
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Bus Logic BT747S Card/Kit 747S	$291/329
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Trantor348 Parallel Port to SCSI	$149

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Mustang IDE-IO VLB Enhanced/PCI	$19/22
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MustangP 4030 4HD/2FD Caching	$109

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NCR(ASUS) SCSI PCI Controller	$79
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ADAPTEC 2842 SCSI II Kit bulk/retail	$223/254
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COMMUNICATIONS

ASA House Brand

902Z 96/24 Fax (Send)/Mod Int	$27
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1414IZ 14.4 F/M,.32/.42 w/Bitfax Int	$50
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992MG PCMCIA 96/24 F/M v. 42	$132
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USRobotics 28.8 M/F I/E	$218/230

Supra

14.4 F/M Int/Ext	$89/105
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TEAC Quad Panasonic Interface	$223
Mitsumi Quad IDE Interface	$199
NEC 3X 510CDR Ext 195ms,450KB/sec	$345
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Hyena w/ Speaker, Joystck, mcrphn, game	$50
Quickshot 16 w/ speakers,game,card etc	$85
Sound Blaster 16 Basic VE Retail	$95
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Sound Blaster 16 SCSI/ w/ASP OEM	$113/157
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100 Watt speakers	$48

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YE Data 1.2/1.44MB	$41/31
Teac 1.2/1.44MB	$45/34
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QTM 540 MV/LTS	$203/223
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Quantum 730LT	$265
CON 850	$325
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SCSI

QUN 540MB MV/LTS FAST	$215/235
Quantum 700	$379
ST1.2GB ST31200/30N 9 msec	$535
Quantum 2 1 GB	$889
ST32430N ST2.1GB 9MS	$959
ST 3.4GB ST43400N	$1629
ST 15150N 4.2GB 8msec	$2195
ST 9GB ST410800N	$3395

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Colorado 250MB	$154
Conner 420 MB QIC Format	$174
Conner 850 MB QIC Format	$279
Colorado Trakker 250MB	$294
Conner-Python 4320 NT 2.0GB DAT 3.5"	$789
Conner-Python 4324RP 4.0GB DAT 3.5"	$846
HP 2GB 35470 DAT 4mm Int/Ext	$795/874
HP 4-8GB 35480 DAT 4mm Int/Ext	$895/989
HP 4-8GB DAT 1533A 4mm Int/Ext	$990/1100
WANGTEK 3100/3200 2/4GB 4mm Int	$879/985
EXABYTE 4200/4200C 2/4GB	$779/859
EXABYTE 8205 5GB 8mm 5.25 I/E	$1245/155
EXABYTE 8505 10GB 8mm Int/Ext	$1935/2265

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Miscellaneous

Star Micrnix NX1001 9 Pin.120/220V	$134/144
Star Micronix 220v quantity of 100 only	$135
IGOR 132 9Pin Wide 220V (Cyri..).in stock ......with any purchase	$110

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OL 380/321 dotmatrix,24Pin,23K	$217/420
OL400e/410elaser 4ppm, 300dpi	$489/635
OL810, 8ppm, 300dpi	$875
OL830 Plus/850, 8ppm w/ 2MB ps	$1055/1165
OKI ML520/521 9 pin 64K	$359/475
OKI ML590/591 24 pin..auto form	$417/561

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Deskjet 540 300dpi,120cps,16k	$289
Deskjet 560C Color,3ppm,300dpi,80k	$465
Deskjet 1200C/ps Color2MB	$1357/1837
HP 4+/4P/4SI/4L/4V	$1349/922/2891/641/1995
4M+/4ML/4MV/4 SiMX	$1941/985/2785/4055

Call for other printer's not on this list

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NE 2000 Plus Comp 16bit Coax/10BT	$29/29
NE2000 Plus Comp Combo soft&hard config	$36
NE 2000 COMP COMBO AUI+BNC+RJ45	$51
D-Link 16 Bit,SoftConfig. 10BT 1/6 Pack	$70/377
Intel EtherExpress 16/5pk/20pk	$106/480/1752
SMC Ethcard 16 Elite Ult Cx/6 Pk	$109/581
SMCEthcardEliteUltraCOBO 1/6	$125/625
3 Com 509 Ethlink III Coax/5Pk	$121/533
3 Com 509 Eth III Combo bulk 5/20	$138/531/1909
3Com 579 EISA Coax/10BT	$229/229

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CeLan 8 Port 10 BT w/BNC Cascade port	$155
CeLan16 Port 10BT w/AUI exp. port	$369
Comp LAN 14Port SNMP capability	$490
Asante 8 Port Hub,8RJ45,1BNC	$247
D-Link 12 Port 10 BaseT	$390
SMC 8 Port Concentrator	$309
SMC 12Port Tiger Hub	$418
3 Com Link Builder 3C621 12 Port	$714

Netware

Ver 3.12 5/10/25/50 User	$613/1495/1935/2523
Ver 3.12 100/250 User	$3783/6667
Ver 4.02 5/10/25/10 User	$843/1677/2355/3399
Ver 4.02 100/250 User	$4699/9143
Ver 4.02 500/1000 User	$15375/27932
Windows NT Advances server	$922
Windows NT v 3.1 upgrade	$276

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APC-BK 280 ,7 MION,386SX,WS	$99
APC-BK400,10MIN,286,386SX,WS	$158
APC-BK450	$215
APC-BK600,15 min,386/486 FS	$259
APC-BK900/12000,15min,Multi-FS	$367/487
Power doctor/Call UPS	$69/102

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APC 400, 10 min,286,386 FS/WS	$288
APC 600,15 min,386,486 FS/WS	$335
APC 900,15 min CAD/CAM WS/FS	$496
APC 1250,15 min,Multiple FSs	$613
APC 2000,20 min, Mini computers	$1095
Matrix UPS 3000 VA, Multi-server	$2869

CABLES & CONNECTORS

Readymade w/Connectors 10'/25'/50'	$4/6/9
RJ45 10BT patch cabnles 7'/25'	$4/6
SPOOL	$80
RJ45 10BT 1000' level4/5	$119/130
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Syquest 105/44 Ext	$298/198
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Limited 10day warranty from purchase date

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Trident 512K/1MB	$37/58
Tseng ET4000 1MB	$73
Mustang 1MB Window Accel CL	$58

VLB/PCI ADAPTERS

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MustangVC Cirrus logic VLB 5428 1/2	$72/117
MustangVS S3-805 VLB 1/2MB	$68/113
MustangET4000 VLB 1MB only	$88
Spider 32 1/2MB,20 WM	$82/127
Spider 32 Plus 1MB	$93
Spider 64 1/2MB VLB/PCI	$117/160
Spider BlackWidow+ 1/2MB PCI/VLB	$160/221
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ORCHID Kelvin 1/2MB PCI/VLB	$133/179
Hercules Dynamite Pro 2MB VLB	$225
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CTX/kANAKA 14" 1024 x 768 .28 NI	$235

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Hitachi-CM2098 20" Elite1280 Anti Glare	$1542
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Sony-15SF 15" 1280x .25	$425
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All parts are covered by Manufacturer's Warranty; Systems come with system level labor warranty of three years from ASA.

Please refer to the ASA Catalog for a full listing of the Terms and Conditions.

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8 MB RAM PCI
INTEL MOTHERBOARD
$1578
MOTHERBOARD/CPU **$1188**

PENTIUM 100 MHz
8 MB RAM PCI
$1388
MOTHERBOARD/CPU **$998**

PENTIUM 90 MHz
8 MB RAM PCI
INTEL MOTHERBOARD
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8 MB RAM PCI
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$1208
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$1338
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8 MB RAM PCI
$938
MOTHERBOARD/CPU **$528**

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8 MB RAM PCI
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PCI/VLB/ISA
$648
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128K CACHE SYSTEM
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128K CACHE SYSTEM
$528
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486SX-33
128K CACHE SYSTEM
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VESA LOCAL BUS
486SX-25
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BASIC SYSTEM CONFIGURATION:

- 4MB RAM Expandable Except Pentium and 386 Systems (Pentium - 8MB/386 1MB)
- IDE 2FD/2HD Controller
- 101 Key Mitsumi Keyboard
- Teac 1.44 MB Floppy Drive
- 2 Serial, 1 Parallel, 1 Game Ports
- Mini Desk Top or Mini Tower Case
- Power Supply
- One Year Warranty

LIFETIME LABOR WARRANTY ON SYSTEM!

486 VLB MULTIMEDIA COMPLETE SYSTEM

PACKAGE INCLUDES:

- Motherboard w/128K Cache
- 4 MB RAM
- 420 MB Hard Drive
- Mini Tower or Mini Desktop Case
- Panasonic CD-ROM Model 562
- Media Magic Sound Card
- Teac 1.2 and 1.44 MB Floppy Drive
- 14" SVGA 1024x768 .28mm NI Color Monitor
- SVGA Card w/1MB (Trident 9440 Chipset)
- IDE Controller (2S/1P/1G)
- 101 Keyboard
- 25W Speakers
- Microsoft Compatible Mouse

486DX-33 MHz	**$1208**
486DX2-66 MHz Intel.	**$1288**
486DX2-80 MHz AMD	**$1248**
486DX4-100 MHz AMD CPU	**$1328**

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ATI Pro Turbo 2MB/4MB PCI/VLB	**$295/509**
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ET 4000 1024x768 NON-INT.	**79**
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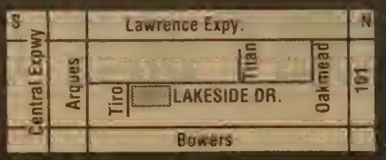

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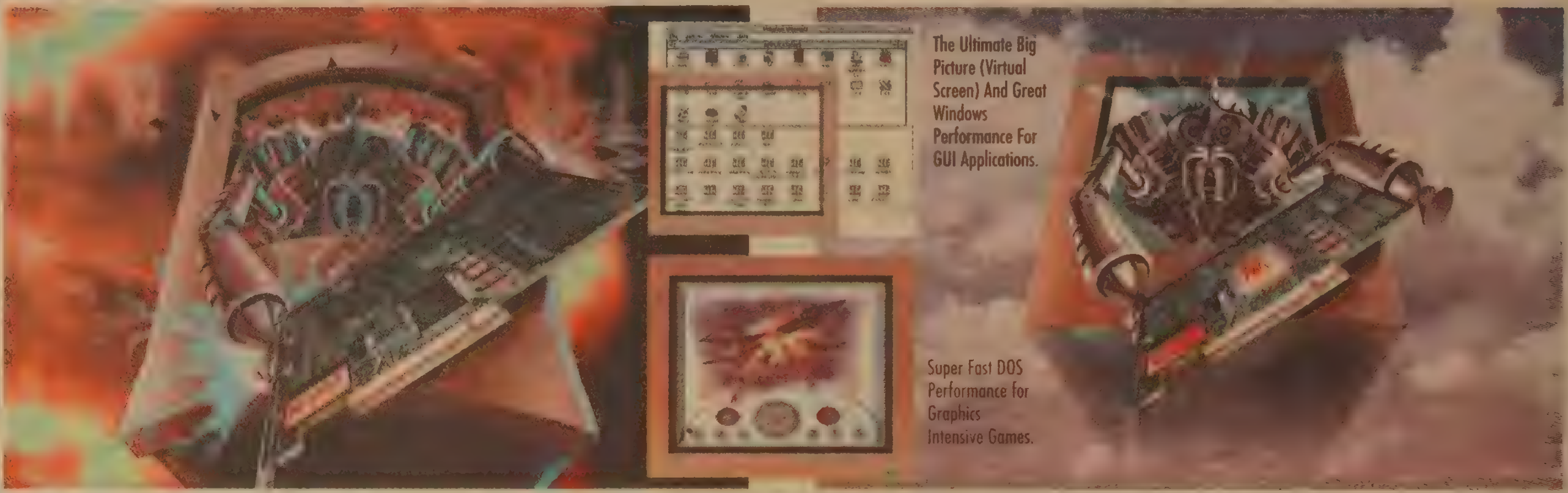
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Display Memory: 2MB or 4MB VRAM
Video Connector: DB-15
Video Signal: Analog

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1024x768	16 to 256	60, 70, 75, 87i
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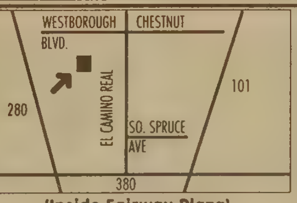

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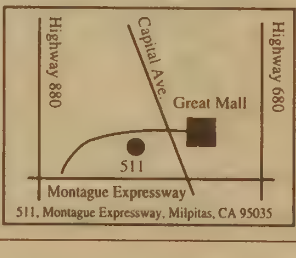

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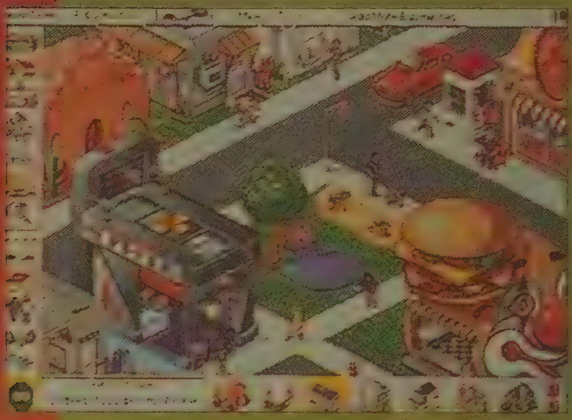
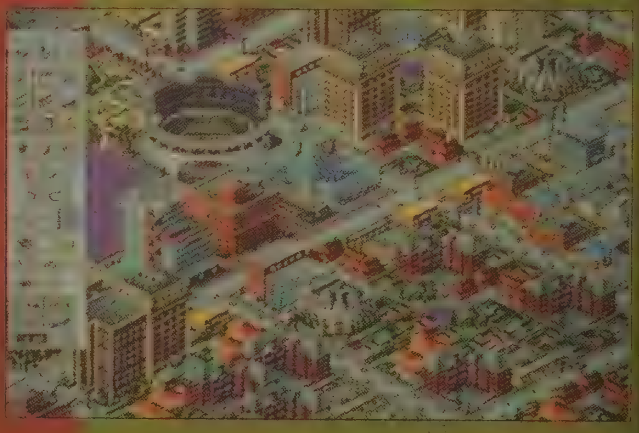

SIMTOWN

Building SimEmpires

Good Times At Maxis

Back in 1985, hopeful young entrepreneur Jeff Braun sold his consulting business and decided to go into publishing. "I'd decided that I was making a fundamental mistake in that I was making money by addition, by the hour, instead of multiplication, by the unit. 'That's what I'm doing wrong here, I need to become a publisher.'"

KLICK AND PLAY


SIMCITY 2000

Furthermore, he had his product strategy all figured out—Games For Jeff. As an affluent young professional, he noticed that there appeared to be plenty of people like himself with money to spend on computer games, and also that they were not much attracted by the shoot-'em-ups aimed at the teenage market.

However, not being a programmer, he was not exactly sure of how to acquire games to publish.

So, along with a friend who was in a similar situation with another startup, he hit upon the idea of throwing pizza-beer-and-games parties for technical people. And, on a fateful evening that lives in company legend, he met Will Wright, a friend of a friend of somebody's next-door neighbor.

Wright had, some years earlier, developed an early Nintendo video game called Raid on Bungeling Bay, which involved making helicopter raids on a town and destroying its munitions factories before they built up sufficient weaponry to sink your aircraft carrier. In the process, since he was acting as his own graphic artist, he discovered that building cities was more fun than destroying them.

"So he started on SimCity in 1984," Braun recalls. "At the time, he was a consultant at Brøderbund. He went on and developed SimCity for the Commodore 64 and finished it; Brøderbund decided that because there was no win or lose, it wasn't a game, and they didn't know how to position it. They said, 'It isn't really what we were thinking it would be,' so they turned it down, and Will started working on two other projects."

By the time the famous party rolled around, SimCity was largely forgotten; pressed by Braun, Wright insisted that he couldn't possibly want to look at a game that Brøderbund had already turned down. Braun wanted to see it anyway.

"He shows me SimCity on the Commodore 64," laughs Braun, "and I nearly fall on the floor in shock. He shows me San Francisco having an earthquake, the monster running around, boats going toot-toot-toot, traffic...

"I went ballistic. I said, 'You know, this is a wonderful product. I think I could do something with it.'"

And so it was that Braun and Wright became business partners, spending the next two years running Maxis out of an apartment in Moraga while developing the Mac and PC versions of SimCity.

It shipped in 1989 and was an instant success. Today, out in a new SimCity 2000 version, it is joined by simulations ranging from ant colonies to global environments, as well as creativity products like the recently shipped Gift Maker, which lets users create art for transfer to everything from coffee mugs to T-shirts.

We visited Maxis's Orinda headquarters in January and found Braun in excellent spirits.

∇

There seems to be a sort of family resemblance among the Sim products in particular and Maxis products in general—how would you define that?

We like to think it's creativity, ownership, and exploration. The idea is that it's open-ended.

We have three product areas: our simulation entertainment product area; we have early learning—we just shipped SimTown and Widget Workshop, which are the first simulations I know of geared for children. Then we have what we call home creativity, which is Print Artist and Gift Maker.

All three product areas allow you to be creative, whether you're making a greeting card in Print Artist or a T-shirt in Gift Maker or a science experiment in Widget Workshop or in SimTown creating your town or with SimAnt creating your ant colony—all of these have elements of construction. We call it constructivist thinking, sort of a Legos approach to learning. Learn by doing.

We like to call our products sugar-coated vitamins, in the sense that there's real learning. You learn a lot about a city playing SimCity.

You've got real physics, and real economics...

That's right, but we sugar-coat it with a game to make it fun. We make it thrilling, in a sense; we make it fun.

All of these products allow you to be creative. They allow you to explore—try this, try that, go check this new idea out, check another idea out. Load in someone else's saved file, and see how that works.

It's about creativity, and because you created it, ownership. It becomes yours. You'll never hear anyone say, "My Mario," "My Myst," "My Tetris," "My Sonic the Hedgehog." They will say, "My city," because they built it. Or "My greeting card."

That ownership creates word of mouth. Once it becomes yours, you don't talk about Maxis, you don't talk about SimCity, you talk about "look at my city and the problems I'm having! There's crime over here and an earthquake over there...." And people get intrigued and say, "I want one!" That's what built the company, ownership and word of mouth.

Virtual worlds are a real big thing right now, and the Sim products are at least entry-level virtual world construction sets. Do you see that branching into more "serious" simulation products?

Without a doubt.

We have a company-wide focus, which is to take creativity into many different areas of software. We are exploring a concept for the simulation products which we call SimWorld.

SimWorld could be the next generation of SimCity. We're working on that now, and we see it as a sort of object-oriented paradigm, in the sense that the world is built up of components. You might have a home; and inside the home are furniture and people, and you can arrange those components for interesting behaviors or interesting effect. We're looking at what an immersive SimCity would be.

In the next versions of our Sim products, you might be able to walk through SimCity, drive through SimCity, fly over SimCity—you'll be able to build your city and then get in a helicopter and do the traffic report.

A couple months ago we did an interview with Neil Young, who was talking about having a virtual cab that let you ride around in the cab of your electric train, checking out the track you laid and the scenery you built...

I want you to know, we've got that running now!

Speaking of virtual trains—I'll make a plug here—there's a product called A-Train. We loved it so much that we flew to Japan and got the rights and shipped it here in the US—it was a popular Maxis product about two years ago.

Well, we might get the Sony PSX version of A-Train, that could be released here by Maxis. The PSX has released in Japan, but it will release in the US within six months. It's a new CD-ROM-based game machine. You can literally build your rail system and get in the train and drive through the city and see the point of view of you being the conductor of your train.

All virtual, right—not like what Neil was saying about riding around your actual layout?

No, you're going to build it just like the game—you lay down the track, and the buildings sort of emerge around the train stations and things like that in A-Train. But when you're done you can get in the train and ride around.

We want to get into this immersive experience where you can not only build your city, but go inside and interact.

SimTower is actually the first example of this. You build a skyscraper; you can have up to sixty-four thousand inhabitants in this tower, of which every inhabitant has a name and an identity. They have a job location and a home location, and you can follow them throughout the tower through their day. So it might be after work, and they're at the movie theater. It might be at work, and they're at their desk, or it might be in the evening and they're home. All this takes place in the tower. There's sixty-four thousand people for you to watch; it's a whole voyeur experience.

SimTower is the beginning of getting inside the buildings, and getting inside the people's minds, and getting inside the social aspects of the simulation.

How do you build in all that stuff—the science and the economics and sociology and whatnot?

Oh, that's our little trade secret! [*laughs*]

Oh, okay...

[*cracks up*] No, I'm just teasing you!

Actually we use a lot of technologies that are fairly well known to propellerheads and are not well known in the general public. Most people just aren't interested in algorithms to generate behaviors and things like that.

The key technology is called cellular automata. SimCity is broken into a bunch of cells, and the simulator only looks at one cell at a time, but it goes between the cells so quickly that it looks like it's all happening at once, live. Very much like a TV set—on a TV set, there's only one dot on the screen at any one time, but it goes so fast your eye can't keep up.

We do that with our simulations. We're actually only calculating one cell at a time, but we calculate all the cells so quickly that you think the whole environment's coming alive.

So as the hardware power increases, you guys have lots of things to do with it.

That's right. So the Pentium is our best friend, and so is the PowerPC, and so is RAM.

CD-ROM didn't really buy us anything, because it's really slow. It's like having a Volkswagen with an oil tanker for a gas tank. It doesn't really help your performance all that much that you've got an oil tanker attached to it. And it's slow.

Whereas you look at the improvement that you get with RISC processors and 32-bit computing—now *that's* something we can make use of. We can do deeper, richer, more complicated simulations.

Right now hardware is the main constraint on the amount of complexity you can deal with?

Absolutely. And key to that is performance, because anybody could write a simulation that accounts for everything in the world, but it'll probably run slow. The issue is really performance.

So everything is in our favor.

A key for Maxis is the element of reuse. When we look at multimedia, one of the key distinguishing things we see is that most of these are click and watch, or click and listen, or click and experience.

We see those as decision trees. You go to this path and then you get to a location, and you have other alternate paths, and you're sort of navigating or surfing through the tree structure.

Well, we consider our products to be decision *forests*, as opposed to decision trees. Nobody could get to all the trees and all the branches in our simulations, and that creates unlimited reuse, which creates value because people can play our products for many, many hours. As opposed to Myst—when you're finished, you're not going to go in and do it again. Whereas with SimCity, there really isn't any finish—you'll continue to come back in.

So you built Atlanta—now you can build San Francisco.

Right, or "I want to build a sleepy little mountain town," or a big high bus lane, or "I want to try no cars," or lots of industry, or no industry. See what happens with all these permutations. So as long as you have an interest, there's always something to go back for.

[Autodesk Chairman/CEO] Carol Bartz was talking at Dick Shaffer's conference in December, in a general setting where application vendors were generally moaning about the flattening market and the difficulty of competing with Microsoft—

Let me just make a comment there.

When I started Maxis we had VCs come through. They said we didn't have recurring revenues, and we should really look at the productivity side of the market. They said we were like vegetables—we go bad.

At the time, video games were targeted to teenagers, and they'd come and go.

So now it's a complete reverse, and I say, isn't that funny—all I've been doing is the same thing since 1987, and I've gone from being a vegetable to being the king of the mountain, and I haven't changed anything.

The whole market has turned around.

What she was saying was that now productivity is essentially building stuff. Whether it's ultimately building real stuff, as with AutoCAD, or virtual stuff, as with 3D Studio, the wave of the future is essentially building stuff.

That's right. It's enabling.

What good is a computer if you're just going to use it as a VCR?

Or a typewriter?

Or a book? Guess what, I can go to the bookstore and get a book. I don't need to get a CD and make it into a book like this Voyager book thing. I like books. I don't need to read on a computer, and it makes my eyes go cross-eyed anyway.

You use a computer for what it can do that other things can't.

The way I like to put it is that everybody loves to drive the car by looking in the mirror. But if you do that too much you're going to hit a wall. At some point you've got to look forward.

You can't constantly say, "Well, books are successful so I'll put a book on a CD." Or "Videos are successful, so I'll make cinematic CDs." You have to say, "I'm going to do something that no one else has done because I'm going forward. I'm not running my business because of the past."

It's like having photography trying to be oil painting.

Photography's very rich, and oil's very rich, but they're different.

Until Cecil B. DeMille, for all the movies, they would take a camera and film the stage. They didn't move the camera. The camera didn't pan. Because up until then, plays were how you did entertainment. So when they

continued on page 155

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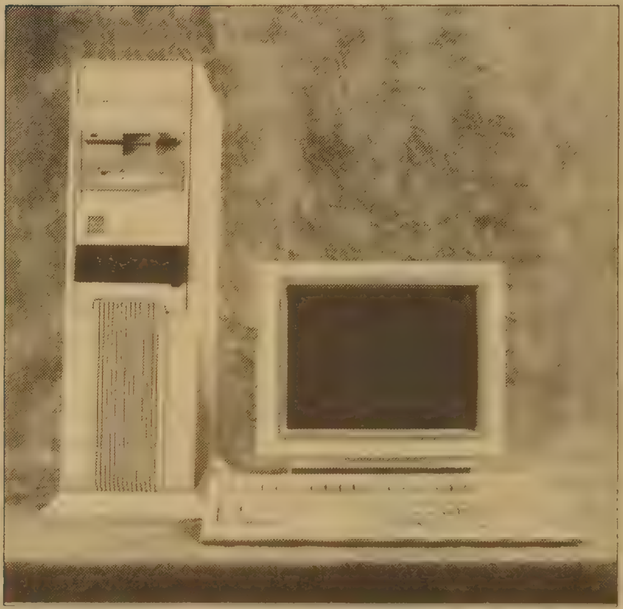
intel inside pentium™ PROCESSOR



90MHz Pentium PCI/VLB

- Pentium PCI/VLB Motherboard
- 0MB RAM expandable to 128MB
- Intel Pentium 90MHz processor
- 256K Cache memory
- 3.5" 1.44MB Floppy Drive
- 4 PCI, 2 VLB, 3 ISA slots
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- 101-key enhanced keyboard
- 1 year parts and labor warranty

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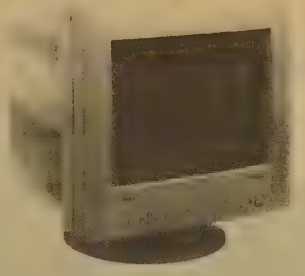

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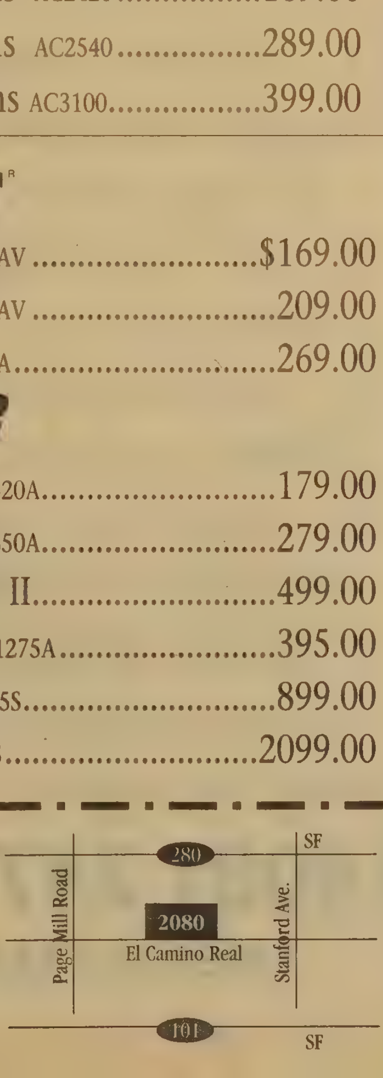

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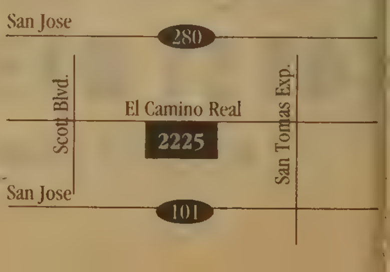

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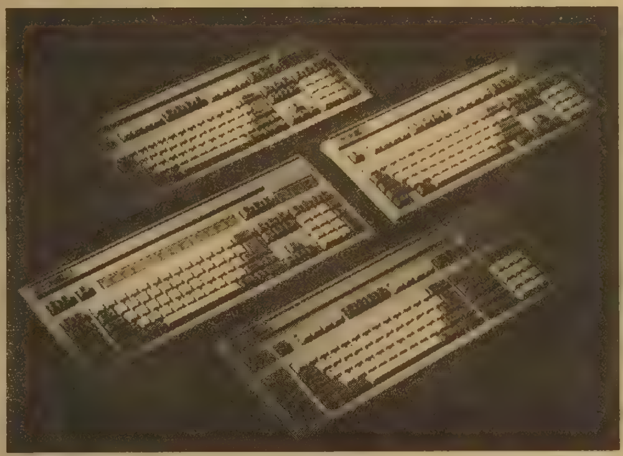

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- 12 F-key across the top
- Inverted T cursor

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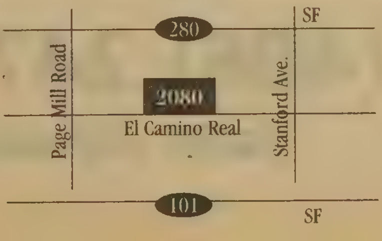

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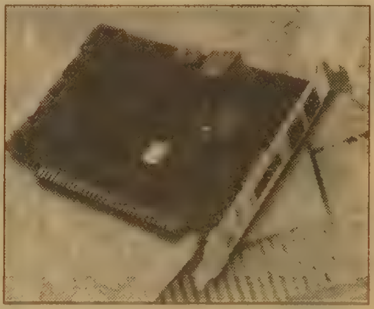

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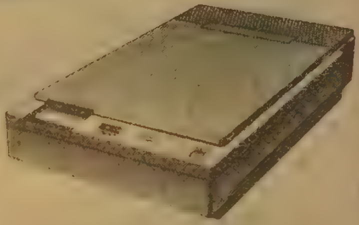

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PME600 **$488**

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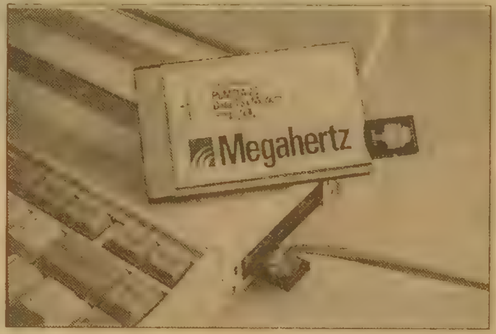

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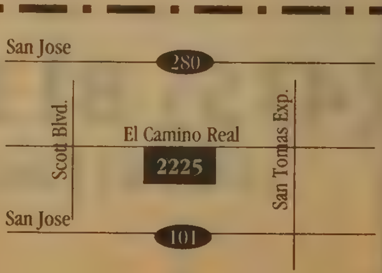

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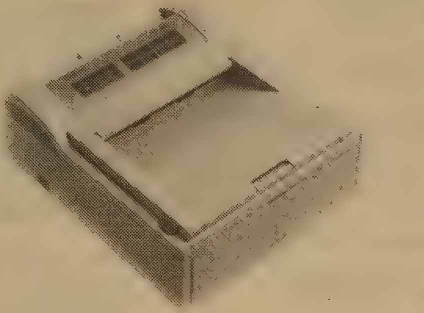

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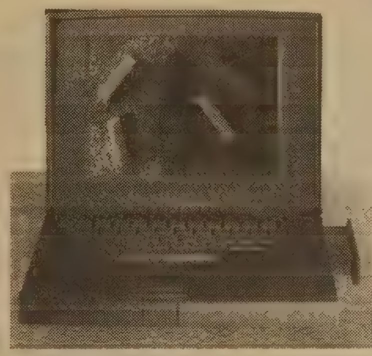

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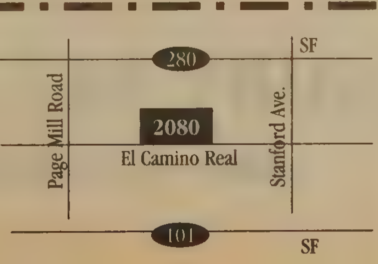

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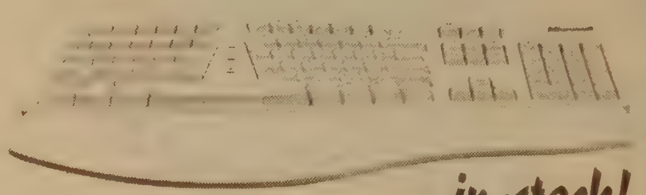

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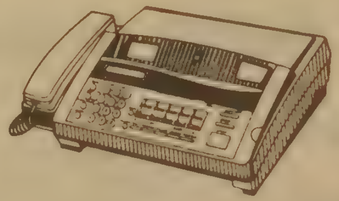

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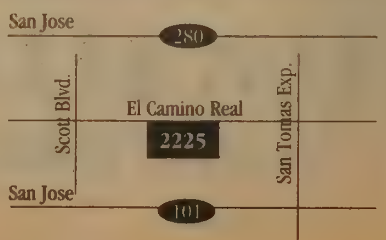

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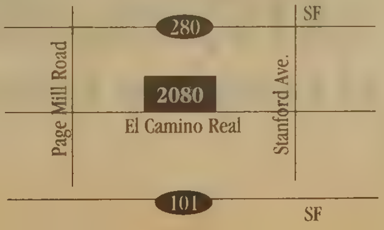

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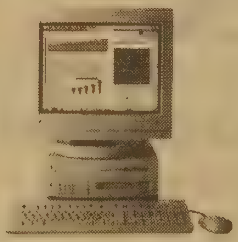

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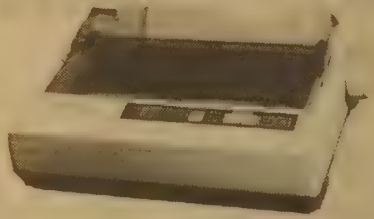

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Versa® S *Color Sub-Notebook*

- SL-486DX2-50MHz
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- SurePoint™ mouse
- 3 Years Standard Warranty
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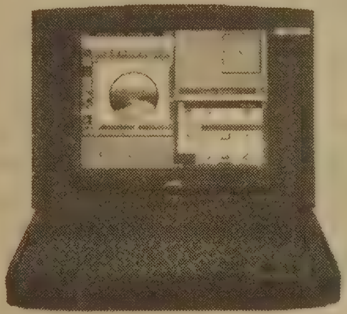

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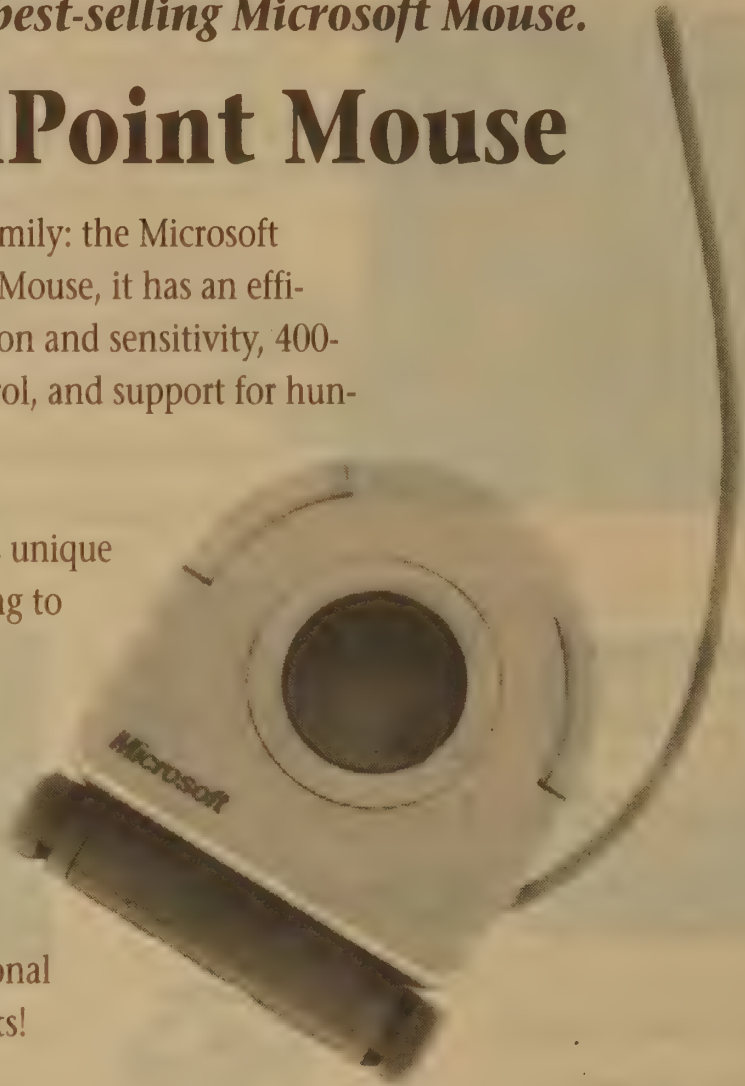
Created for notebook and desktop computers, the Microsoft Ballpoint mouse has a revolutionary design that's ideal whenever space is at a premium. Set it next to your keyboard and get the same high resolution performance as the best-selling Microsoft Mouse.

Microsoft® BallPoint Mouse

Meet an exciting member of the Microsoft family: the Microsoft Ballpoint mouse. Like the popular Microsoft Mouse, it has an efficient ergonomic design, adjustable acceleration and sensitivity, 400-points-per-inch resolution for pinpoint control, and support for hundreds of applications.



But just one look will tell you this mouse has unique advantages. It brings mouse-driven computing to your computer. Set the mouse to the left or right - whatever you prefer. The Ballpoint mouse can also be lowered, swiveled in, out or up to maximize the comfort of your hand.

The Microsoft Ballpoint mouse: It's a sensational innovation from Microsoft, the mouse experts!

Ready...

Tilt...

Swivel!

Microsoft® *BallPoint Mouse*

$14.99

Call for more information

(408) 247-4444
or (415) 813-0600
ACCESS Computer Technologies

Microsoft

continued from page 141

introduced the new technology, there was no science of moving cameras around.

That's the same as what's going on here. You can't do simulation in a book. You can't do simulation with video. The only way you can do it effectively is by getting together and saying, "Let's pretend, and we'll pretend whatever we want to simulate," or you use a computer. Those are your alternatives.

So I'm using the medium for what it's specifically suited for. Why would I want to take a video and put it on a CD? It's very good off a videotape. And it's cheaper. And faster. And a three-year-old could use it. So why is it that we want to use a computer for this stuff?

Creative applications are uniquely suited to the computer. It's an enabling medium. You don't become interactive to be told what to do. Video is *telling.* Books are *telling,* lectures are *telling.* These are all linear media—they have a beginning, a middle, and an end.

Who would want to go interactive and be told what to do? Most people don't like to be told what to do, not children, not adults. We love hearing stories, but we have media that are very effective for telling stories. What the computer is effective for is interacting—me and whatever's on the computer, me manipulating what's in there. That's creativity. It's me. It's my Rorschach test. I'm taking this fuzzy data and turning it into something that's personally meaningful for me.

This is a medium that allows me to create. I couldn't build a city without this computer. We would have to sell an enormous amount of buildings and parts and things that would fill a huge box, to let you kind of play. And even then, there wouldn't be earthquakes or fires—that would be dangerous.

So what we're doing is we're focusing on enabling technologies. We can enable people. I'm not a mayor, but I can run a city. I'm not an artist, but with Print Artist I can create great things. I'm not a T-shirt printer, but with Gift Maker I can make these wonderful neat T-shirts, and *I* did it.

We're just experimenting. This is my little sandbox.

Everyone talks about the future of online. Eventually it comes down to online merchandising where you're going to buy things online—everyone talks about how the TV show will be going on and you say, "Gee, I like that sweater he's wearing," and you click on it and it says, "Get it from Sears, and here's how to order it right now." And you go and you buy it, and then you're right back in the TV show. And it's delivered to your door.

That's their idea of the future of home buying. Well, that's interesting, but I think what's much more interesting is Gift Maker, where I can take my own favorite images and graphics, and maybe I could surf the Net for beautiful images of Hawaii. Or I'm interested in cats, or I'm interested in sports. I can grab images that interest me, and then I put those on the T-shirt with my own message. And it gets printed and delivered to me.

Now, isn't that a lot better?

I saw that they have this thing where they put people in a room, and they put out their arms and a laser scans them perfectly, for your body measurements. Then you'll have a disk that's your body, 3-D. So when you buy pants or something, you'll send them your body shape and the pants will be sewn specifically to the shape of your body.

Levi's is doing that.

Right.

It's not shopping online that's important, it's customized shopping online. Because we can *do* that. You couldn't do that before.

Once again, when people look at online, they're driving by looking in the mirror. They're saying, "Oh, we used to buy things in stores, so in virtual reality, we'll buy them in virtual stores." They're not thinking that there are some things you could do here that you couldn't do before.

What's important is trying to innovate and decide not what was, but what could be. And that's what we're really wrapped around here.

All of a sudden we're offering tools like Klick & Play. I'll pitch a product here—Klick & Play is the first product where you can build your own video game as a consumer. It's a game editing system, but there's no programming. It's object-oriented, and you just place them and let them go, and create your own game.

Once again, we're giving you tools to create.

Now the genius thing about giving people tools to create, to take a diversion, is the reuse. People will not play Myst three times, but you'll use Klick & Play forever. It becomes a lifetime experience.

You get people involved in activities that are creationist, and the reuse goes on forever. We're very much in the nonlinear—there's no beginning, no middle, no end. It's nondirectional—you go in with your own decision and decide your objectives. It creates a very rich and broad environment for these people.

Now people don't want to create unlimited. You put someone in front of a piano, and they won't have a clue. Or you put someone in front of 3D Studio, and say, "Make something really cool," and they're going to be blank. So we provide sample cities, and sample artwork, and sample things, and say, "Start with this."

There's sort of a continuum we work with, where on one end it's completely open-ended and creative and you go too far, and on the other end, it's completely linear and you're being *told,* and there's no interaction. Where we're aiming is somewhere in the middle, where you're being helped and guided, but you're allowed to be creative; where there's a little bit of guidance and a little bit of creativity.

Ten years ago there were things like Pinball Construction Set. Is it simply a bandwidth issue that you're capable of doing things that are so much more sophisticated now?

The thing is that the CPU, as it becomes powerful, can do more things. Macromedia Developer is almost getting to the point now where people could do it themselves; Klick & Play is Macromedia Developer for everybody. The truth is that when you start offering ease-of-use features and making it simpler and less open-ended and less propellerheads, it actually takes more CPU cycles.

It's like Mac versus DOS.

Exactly. So as the computers advance, the creativity and potential for making it easier for people to create advances. It opens up the market. It's absolutely key and tied to the whole process—improvements in hardware equalling improvements in the capability for us to deliver products that allow this creative interaction.

So what are the social ramifications of all this Sim-stuff? What's it teaching the new generation?

Sometime during the Gulf War, someone went and did an interview with [Spectrum Holobyte's] Gilman Louie, in the course of which it came to light that the military powers that be were just thrilled at the quality of the recruits they were getting, because all these eighteen-year-olds had grown up with Gilman's flight simulators, and they were really good. So the interviewer asked whether it bothered Gilman that his games were such a significant contribution to this process of dehumanization and desensitizing—hitting a building in Baghdad was just another pretty explosion on the screen, another hit point, despite the fact that real people were getting blown to bits in the process. The interviewer wanted to know whether Gilman had an ethical problem with that.

No, I don't think he did.

It seemed like no one had asked him that question before.

So what do I think about it?

Well, my funny story is I had a young kid who lived next door to me in the early '80s. I've always been a computer nerd; I'm not a programmer but I love technology. I had one of the very first Apple IIs, and this kid would come over and want to play computer games. Which I was happy to do because I had

continued on page 161

HIQ

Jupiter Multimedia Systems

All HiQ Jupiter Multimedia systems include the following:

- Intel CPU
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- 256K SRAM Cache
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- IDE Enhanced Hard Disk (420 or 540MB)
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- VLB Video with 1MB
- 2 serial, 1 parallel, GP
- 14" 1024x768 .28dp SVGA NI monitor
- 101 Enhanced Keyboard
- Mid Tower with 230W P/S
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Quad Speed CD-ROM
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intel inside

Other Jupiter Features:

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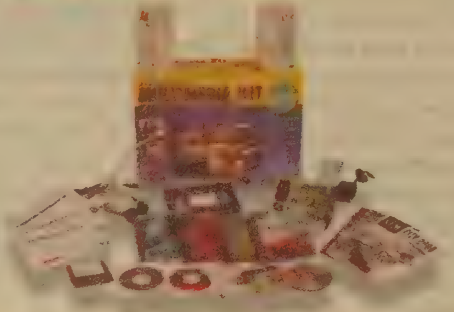

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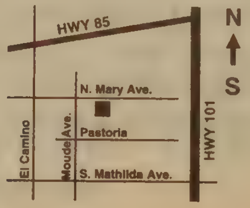

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- 32-bit Genoa 8500 VLB
- 15" 1024x768 .28dp Green Monitor
- 101 Enhanced Keyboard
- Mid Tower Case with a 230W P/S, 7 Bays
- MS DOS 6.22 and Windows 3.11
- Serial Mouse and Mouse Pad

The HiQ Earth Green PC was selected over several well known systems by PC Magazine's staff of Editors to receive the coveted Editor's Choice Award. If power usage is your concern, go with a winner and choose HiQ's Earth Green PC.

486DX/66........$1399
486DX4/100....$1479
Pentium..........CALL!

Advantages of Green PC:

1. Save on your electricity bill
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HiQ 4DX66 Green PC System
Excellent DOS Applications

PC MAGAZINE EDITORS' CHOICE
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Best Value Among EPA Systems

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More 486 Systems

HiQ Mercury Station

PC MAGAZINE
Feb 23,1993

A fast 486DX/33 processor combined with a host of quality components drove the HiQ Ultimate 433i to score across a range of PC Lab's performance test, making the unit unusually versatile for the price.

- Intel 486 CPU
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- VLB Motherboard
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486DX2/66 . . . . $1269
486SX250 . . . . $1179

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Entry Pentium HiQ Venus Station

- Intel Pentium CPU
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- PCI IDE Controller
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- PCI SVGA Video Card w/ 1MB
- 14" 1024x768 .28dp SVGA Monitor
- 101 Enhanced Keyboard
- Full Tower w/ 230W PS
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- Serial Mouse w/ Pad

P100	$2049
P90	$1939
P66	$1659
P60	$1609

HiQ Neptune Powerstation

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- 1.44MB Teac Floppy Drive
- 1GB Wide SCSI Hard Drive
- Adaptec 2940W PCI Wide SCSI Controller
- 2 Serial, 1 Parallel, GP
- Diamond Stealth 64 w/ 2MB DRAM
- 15" 1024x768 .28dp SVGA Monitor
- 101 Enhanced Keyboard
- Full Tower w/ 230W PS
- MS DOS 6.22 and Windows 3.11
- HiQ Serial Mouse w/ Pad

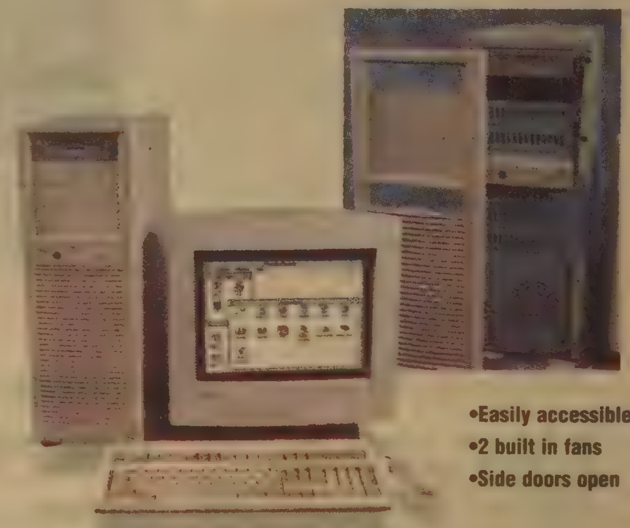
Neptune P100	$3199
Neptune P90	$2999
Neptune P66	$2779
Neptune P60	$2729

PC WORLD
January 1995

HiQ Neptune P90. Our test score show that HiQ's debut a fast Pentium-90 is one of the mightier machines we've tested. We weren't surprised to find lots of expansion

PC MAGAZINE
Nov/Dec 1994

HiQ Neptune P90/PCI performed consistently well, with a slightly above-average Graphics WinMark 95 score solidly above-average.



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- **2 built in fans**
- **Side doors open**

HiQ Uranus P90 Dual Processor

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- Adaptec 2940W PCI Wide SCSI Controller
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- 101 Enhanced Keyboard
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- MS DOS 6.22 and Windows 3.11
- HiQ Serial Mouse w/ Pad

Price $4259

HiQ Pluto EISA/PCI

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- 256K SRAM Cache
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- Adaptec 2940W PCI Wide SCSI Controller
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- HiQ Serial Mouse w/ Pad

P100	$3339
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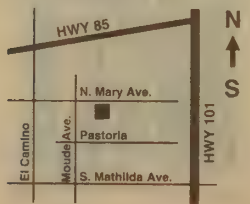

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(Redundant Array of Inexpensive Disks)

yes NetWare Tested and Approved

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What is RAID?

RAID stands for Redundant Array if Independent Disks. Simply put, RAID is a storage technology - a subsystem consisting of two or more disk drives working as one. That's misleading, though, because RAID is far more complex. It's a cost effective form of protection that can automatically reconstruct data after a disk crash without forcing you to take your system down. Think of RAID as a sort of miraculous high-tech tire - one that could fix itself even as your car races down the freeway.

How Will RAID Benefit Me?

Reliability

With multiple disk drives, redundant power supplies and fans, the mean time between data loss (MTBDL)) is in excess of 5 million hours. This is crucial when data needs to be available at all times. A drive failure no longer means loss of data or even loss of access to your data.

High Availability

The system is fault tolerant. Menu hardware components, including disk drives, can be replaced while the system remains active, and data remains accessible.

Cost Effectiveness

Using RAID 5, it is possible to provide drive fault-tolerance without doubling the total storage capacity and cost; six 1 GB disk drives provide 5 GB of useable storage. Using mirroring (RAID 1), ten 1 GB disk drives would be required to provide 5 GB of useable storage. The average cost per MB of the Conner CR6-RAID system is no more than mirroring or duplexing and provides fault tolerance.

Flexibility

Most RAID systems have the capability to add capacity by either upgrading the disk drives or by adding modules to the RAID system. Selectable RAID levels also offer different combinations of fault tolerance, capacity and performance. Multiple bus and operating compatibility is offered as well as options for hardware or software RAID implementations.

Increased Capacity

RAID offers an easy way to add hard disk drives to the network. Multiple low capacity disks can be accessed as one large volume.

For Ultimate Fault Tolerance

CONNER

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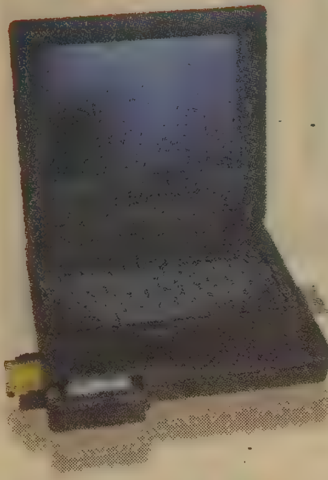

Pentium

(8MB, 258MB HD)

CPU	DLSC	TFT
P60	N/A	$3359
P90 (8MB, 540MB HD)		
P90	$3589	$4709

Upgrades

258MB HD	$45
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540MB HD	$289
4MB RAM	$210
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Multimedia!

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CPU	Mono	DLSC	TFT
80486SX/33	$1299	$1869	$2749
80486DX2/66	$1454	$2069	$2859
80486DX4/100	$1609	$2129	$2959

7500 Series

CPU	Mono	DLSC	TFT
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80486DX2/66	$1439	$1959	$2829
80486DX4/100	$1609	$2109	$2929

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plenty of them, and I liked seeing them through his eyes, so I would go out and buy games for him.

They ended up moving away, and I hadn't heard from them for a while, and it was the Gulf War, literally. I ran into his mother at the grocery store, and I asked, "How's the kid?" I hadn't seen him in maybe six years. She goes, "Well, remember those video games?"

He's in the Army. He's the guy who does the TOW missile. It's got a joystick—it's a wire-guided missile, so while the missile's flying there's literally a wire attached all the way back—and he guides it into the tank. She said, "It was exactly because of the time you spent with him that he became one of the very best in the military TOW missile specialty." He's incredibly good, and he was good from the beginning.

She told me this, and I had a feeling of "My God, what did I do?" Innocently by taking care of this nice kid, I'm almost responsible for being a killer?

So not only is it an idea, I had it happen to me for real.

There was an article by Russell DiMaria reprinted in the *Chronicle* a while ago. It said, "Doom isn't bad, Mortal Kombat isn't bad; it's a mirror of society." That it wouldn't sell the way it sold if people didn't somehow resonate with what was happening in there.

So to blame the developers is like blaming an individual for the ills of society. They didn't create the demand for blood and guts—the public demanded that. It's a reflection of our society.

You can choose to make your money that way or not.

Exactly, but it is a reflection of society. And it's up to people to determine what they want to get out of it.

I agree with that. I don't think that the developers that do these violent products are bad in any sense. I think that they are a reflection of our society.

I think that these rating systems are crazy—did you know that Nintendo refused to use the word "kill" or ever have any blood in their Nintendo games, but now that they have ratings their first game is called "Killer Instinct" and has blood all over it? Because now they can put a rating on it and get away with it.

What it did was it justified the whole thing. Whereas before you felt a little bit guilty for doing violent games, now you just slap a rating on it and you remove your guilt.

My thing is if you're going to rate anything, you ought to rate how easy it is to use. Have a nerd with a band-aid around the glasses—that means you better stay away if you're not a propellerhead; and another one that has, like, a baby. I think that's much more important, because ease of use is a much bigger issue for me than content at this point, when you're building a market.

Maxis believes that Mortal Kombat is an educational title. How 'bout that? It's not that it's not educational, it's that it's *too* educational! It's teaching you things you don't want people to learn. If there was Murder 101, Mortal Kombat would be the first thing you'd want to have—it tells you how to rip out the heart and how to do a karate kick and a kick in the side of the head... You know what I mean? It's teaching you violence and death.

Mortal Kombat teaches killing, and Reader Rabbit teaches English or whatever. It's not that it's not educational, in fact, the reason that the whole rating thing happened was that it was too educational—these kids were starting to rip each others' hearts out. There's these examples of kids killing other kids and saying, "I saw it on Power Rangers."

What we're thinking at Maxis is that fundamentally play is learning. In humans, play is not considered learning, but if you talk to scientists that study mammals, any time they talk about play in reference to wolves or dogs or lions or whatever, it's in relation to learning. They're fighting, they're doing territorial things. They're learning by playing.

Play is learning in a safe environment. So children will play in the activities they're curious about.

The reason boys play war is that they're curious about it. It's a very serious, very deep, very meaningful, very much etched-in-our-hearts kind of activity. Kids pick up on it really young, and they would like to learn about it. Killing each other? Battling over *what*? It's a deep emotional thing in our psyche. Kids want to learn about it. Sex, same thing. They want to learn about it. The more you hide it, the more they think there's something there. Drugs? I can't do it? Then get me some!

We think play is learning. So we think that Mortal Kombat is learning, we think that Doom is learning, we think that all these products that people hate are learning.

We also think SimCity is learning. We also think that Mario is learning—in Mario you learn that if you hit your head on this rock and stars fly out and you collect the stars and get to the bonus round, you get extra lives. That's learning. Whether it's valued or not... it's not.

There was a discussion of this sort of issue on The WELL in which a parent said, "My kids play Nintendo and they're learning all the time. They're not learning school subjects, but they're learning patience, they're learning to retry, they're learning to think in layers. They're learning not to be afraid of failure. And all that is valuable."

Exactly! Patterns. Cycles. That's exactly true, you have to remove yourself from the content and look at the process and the activity. So at Maxis we think we're a learning software company, but we also think, so is Acclaim. We think the most effective learning application is learning by doing. And what our simulations and games allow you to do is *do*. I could sit here until I'm blue in the face telling you all these things that you're going to memorize, and you'll know them all, but you won't have learned.

You can tell a kid all you want, "Don't put your hand in the fire. Don't put your hand in the fire. Don't put your hand in the fire." That's not learning. What that's really saying is "Check it out!" But when you put your hand in the fire the first time and you burn yourself, that's learning for life. You will never do it again.

But you'll always do it once. And the reason is, nobody believes anybody else. Everyone believes experience, and experience you believe 100%.

To have a really true learning experience, you don't need somebody sitting there lecturing to you telling you what your experience and your knowledge should be; you need to find out for yourself. So you need to create an environment where people can discover that if you have too much industry you'll have too much pollution, but if you have too little industry you won't have jobs. It's about tradeoffs, and it's about balance, and it's about cause and effect.

Those are very difficult-to-teach concepts with linear media which tell. You don't go interactive to be told. I'll just watch a video or read a book for that—why do I need a computer? What I'm using a computer for is to create, to mold.

We're the leaders, if you ask me, in nonlinear, *doing* software. There is no goal here. When you get Print Artist, we don't say, "Your goal is to get to the end and save the princess." The goal is to please yourself. The goal is to create something that you appreciate for yourself. What's the goal of SimCity? To build the city that's your dream. It's a reflection of who you are. It's a Rorschach test.

Our goal is to give you an environment to create in. And then you can use those tools to create your vision.

I've heard a lot about your Sim products being used in education.

All the time.

There's two major trends in education now. One is learning by doing; the other is interdisciplinary studies, where they take a concept and carry it through math and science and reading. Like the Oregon Trail—you look at it from the standpoint of carrying supplies, or from a social standpoint of how families survived going across, or from the point of view of all the artists that were involved in creating the images that we have.

So we, in a noncurricular fashion, have ended up with products that meet both those needs. We cover a lot of different areas on a single subject—we have population issues in a city, and we have financial issues, and NIMBY issues. We have all these things, but they're all in SimCity and you have to pay attention to all of them; there's multiple variables. There's cause and effect. Everything's tradeoffs.

What we're trying to do with our products is—there's no right or wrong, there's no good or bad. Someone told me once that we could solve all the world's human-caused pollution problems in ten minutes if everyone holds their breath for ten minutes. The world's problems with mankind are done. [*laughs*]

There's no right or wrong, no good or bad. You just open up your mind and think. Our products are that way. With SimEarth, you can send a comet down and trash an entire civilization! Who says we're not violent—my God, you can burn the entire planet up! What could be more violent than burning up an entire planet?

But yet they think that SimEarth is educational and nonviolent. In SimCity you can torch the entire town. You can set the whole thing in flames and crumble it to the ground and kill everybody there, all those virtual Sims. And yet we're not as violent as Mortal Kombat!

No, we're *very* violent! We're incredibly violent. They're at least doing it on a one-on-one basis. We take out the entire town.

So I can make a case that not only is Mortal Kombat educational, but that SimCity is more violent than Mortal Kombat. It's not about what's right or wrong or good or bad, it's about what do you want. What do you want to create? What do you want in your world? You can decide your environment, and that's what's important.

Not that I'm going to build a "good city." There's no such thing as a good city. A good city is one that meets whatever needs you decide your city should be meeting. That's what's good.

Some people are very cruel to their citizens and torture them all the time [*laughs*] and have police states with police stations everywhere. "There's no crime here!" Other people say, "I don't like those pigs and I don't want police in my neighborhood," and they have lots of crime but they say that's a small price to pay for not having a police state. You've got your libertarians and your anarchists and they're all right. Nobody's wrong and nobody's right—it's just what do you want to achieve.

That's what simulations teach, goal-oriented learning. In SimEarth, you can change Earth's axis—what happens if I make it perfect like a top instead of wobbling off-center a little bit? The wobbling causes seasons. That's learning, but we didn't say what's good or bad. You want to turn up the heat of the sun, you fry the planet. Do it! We didn't leave that feature out because we said, "Oh, it's bad to burn the planet." In SimEarth, in ten billion years eventually the sun goes supernova, so the whole goal is to get civilization to a level where it can leave the planet and go on to other planets. It's like life, it just continues on.

Play is learning in a safe environment. What simulations do is give you a safe environment for learning. You can make mistakes without feeling like an idiot, because no one saw you make the mistake.

Like when spreadsheets came out, it was much easier to do what-ifs.

Spreadsheets *are* simulations. That's the whole point.

This is just more multidimensional.

Exactly. We're just taking the numbers and turning them into pictures. We are doing what-if, cause and effect. SimCity is a spreadsheet for cities. That's what cellular automata is; we're manipulating matrix data. It's a 3-D spreadsheet. There's numbers going both ways, and those numbers translate to graphics—if you have lots of money your buildings look good, and if you don't have much money the buildings start looking ugly. That's all being driven from the numbers.

So do you see this being a modeling tool extending into real life?

Let me put it this way.

Right now in our society, even though we have a democracy, we really don't. We're governed by the officials and their best guess as to what's right and wrong. We as a citizenry trust that the government will do the right thing with the budget. Now the truth is the budget is so complex that nobody understands it. Nobody. It's two or three years before the Office of Budget Management can say what happened.

And yet we're expected to make decisions now.

What happens is that it becomes a dictatorship because the citizenry can't be informed. There's no way the citizenry can be informed on the complex budget. This is like back to monarchy, dependent on the experts.

Well, what's an expert? An expert is someone who's learned by doing. I haven't had the opportunity to learn by doing. Well, simulations allow you to learn by doing. So rather than sitting here with *TIME* magazine talking about the budget or the health care system, which is another wild thing that no one understands, or taxes—nobody knows all the tax laws, but you're expected to follow them—it's very hard to show that in linear talking. But if you want to build a simulation of the budget, or a simulation of the tax collection system, or a simulation of health care, all of a sudden the issues start popping up.

And if the citizenry starts doing this, they can learn by doing. You know what a letter to the editor is? It's a model. It's a simulation. It's a spreadsheet. It says, "My idea is different from this consensus idea because..." Cause and effect, but you're doing it with text.

But what if people could send simulations to the editor? People could start debating simulations instead of concepts, and when you get a simulation that everyone agrees to, we marry it up to reality, and we make the real world work like the simulated world. You have a simulation of it, and the real thing, and they keep checking each other. The simulation keeps getting modified because the real world changes. The real world changes because the simulation is turning up some alternatives that the real world hasn't thought of—that you might want to avoid this and avoid that.

The power of simulation going forward is a way to inform the citizenry of issues that nobody can understand, and bring them back to a level of complexity that everyone can understand. So the government officials can't pull the wool over our eyes because of the complexity involved in it and say, "Trust me, you can't understand it."

Simulations can bust the door of complexity and get common people to understand the budget, get common people to understand the health care system, the justice system, the prison system, the roadways, our transportation, our power.

That's the social implication of simulations—allowing groups to collaboratively decide what would be in their interest. Consensus will emerge. There are things that people all agree on. I don't know anyone going around saying they think certain people should have health care and others shouldn't—that's not the point. The point is how you do it. You can do it a lot of ways, and they all have ups and downs and goods and bads. We're not trying to say that the government's bad because of the way they spend money; it just is, and that's a model in itself. You run it this way, and this is what happens. You run it that way, and this is what happens. Cause and effect. Simulations can teach that. Books can't.

Do you see the online world as an opportunity?

We want to take advantage of all media. Maxis is not really a PC bigot—online is an interesting environment too, and it's going to be more and more important. We see some real advantages online—obviously the big one, as you've discovered if you've been on America Online or The WELL, is community. Online is about community.

Up until now we've never really thought about community in our products; they're standalone. There's a community around SimCity that happens online, with people sharing their cities and talking about their experience of the product, but not so much collaboratively building a city. So we're looking at what a collaborative virtual world is, and how people would interact in that.

But this is such a new medium and it's such a new concept and the dynamics are all so fresh that it'll probably be five years before we even know who we are, much less what we're doing with it. And I'm not going to drive this one by looking in the mirror—it's something that's going to emerge. What's going to happen will be the result of people trying different things.

We're going to put SimCity 2000 in a collaborative online environment, but it's more about "Let's just see what the community brings to simulation." It's like if there's a new seasoning, I'll put it in my stew to see if it helps or not. I'm not sure of the results; I'm not sure what people are going to want to do with this interactive online, and I think it'll be five to ten years before it becomes obvious.

Gee, this is refreshingly realistic. [*laughter*]

We don't want to make a big deal out of it. We want to make it a natural extension of our standalone products—as the online picks up with the customers that buy our standalone products, we'll provide a space for them on the online network. There'll be unique features to that, given that there's unique capabilities. But really we see that as a natural extension to what we're already doing. We're looking at it across the board for all our products—what does that mean online?

And I don't think anybody really knows what is going to be the killer app online. That's reality, so I'm not going to pretend that I know it. We're just going to try things, and very conservatively, until we feel that we have something that's worthy of putting out in a broader way.

I couldn't have told you where we'd be today three years ago, either.

Pioneers are the ones with the arrows in their backs and their faces in the dust. It used to be that you wanted to be a year early to be the leader, the first one and all that. I'll be a year late and be just fine.

Be a year late and properly implemented.

And be profitable.

Hindsight is 20-20. Everyone knows after it happened what happened. But knowing what's going to happen in the future, that's my job. I have to steer the ship in waters that aren't clear, and there's icebergs underneath of which only a little bit's popping on the top, and they could be good or bad.

We want to keep an open mind about the whole thing. ■

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OS/2 *continued from page 81*

vers such as FxPrint.

ADDLPT, a public domain utility available on BBSes and in the CompuServe OS/2 forums, when executed at the command line "... adds LPT3–9 in your OS2.INI file so that OS/2 will allow selection of LPT3 thru 9" (or LPT4–9 if you have three parallel ports like me). Figure 1 shows what you see when you go into the Output setting of any printer driver. FxPrint is attached to LPT4 (the FaxWorks installation utility does not see LPT4–9, so you must configure it for a real LPT—3 is the default—and then use the Output setting to change it to LPT4; note that these are virtual ports and you cannot use them to attach "real" devices to them).

With this configuration in working order, I ran the Warp RMVIEW utility with the /IRQ switch and got the response in Listing 1. Note that IRQs 2, 8, 9, 12, and 13 are not listed by RMVIEW, but the I/O port configuration was otherwise validated. The output will vary with your specific configuration, and may not always be reliable for reasons explained last month. ■

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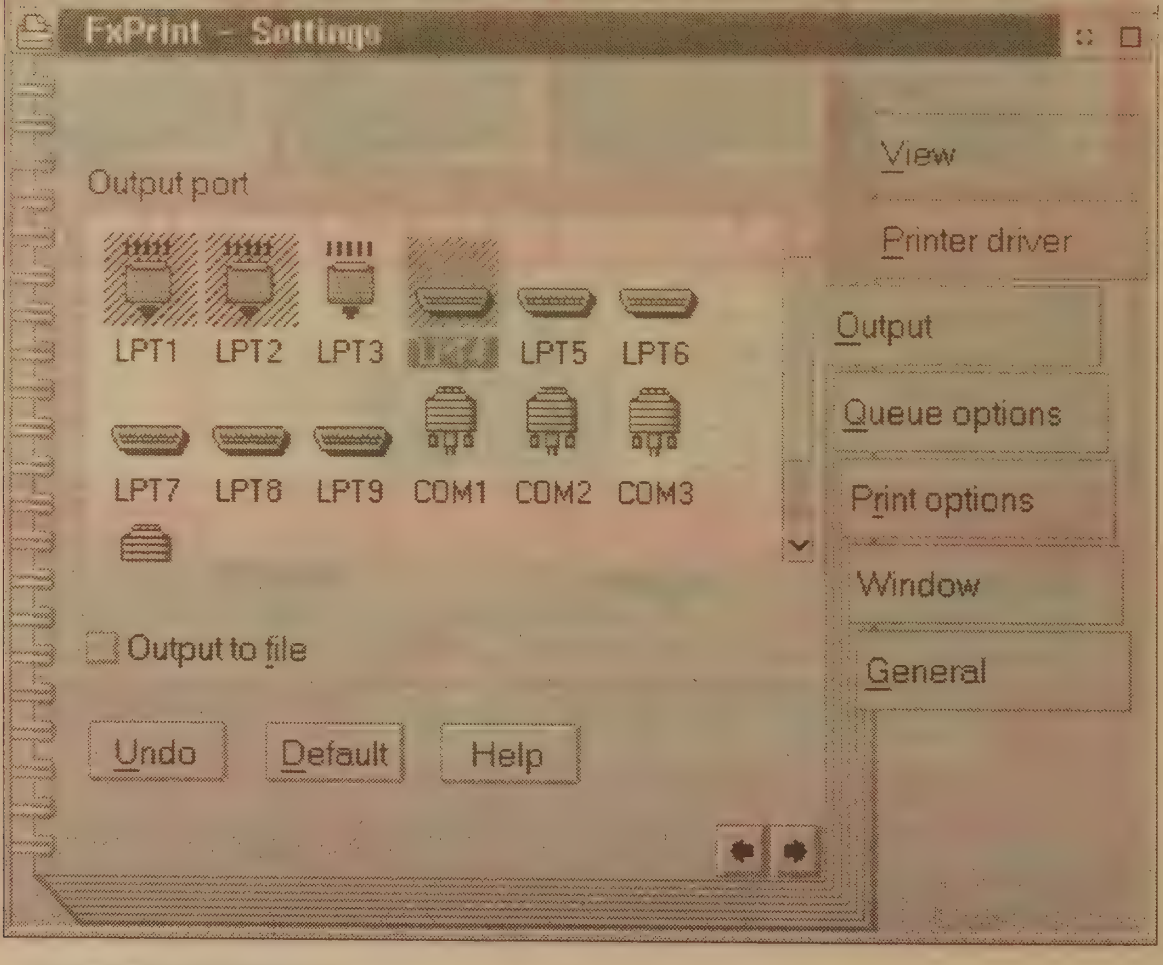
LISTING 1: RMVIEW Output

```
RMVIEW: Physical view

IRQ Level =  1  PCI Pin = NONE  Flg = EXCLUSIVE     KBD_0 Keyboard Controller
IRQ Level =  3  PCI Pin = NONE  Flg = MULTIPLEXED   SERIAL_1 Serial Controller
IRQ Level =  4  PCI Pin = NONE  Flg = MULTIPLEXED   SERIAL_0 Serial Controller
IRQ Level =  5  PCI Pin = NONE  Flg = MULTIPLEXED   PARALLEL_2 Parallel Port Adapter
IRQ Level =  6  PCI Pin = NONE  Flg = MULTIPLEXED   FLOPPY_0 Floppy Controller
IRQ Level =  7  PCI Pin = NONE  Flg = MULTIPLEXED   PARALLEL_0 Parallel Port Adapter
IRQ Level =  7  PCI Pin = NONE  Flg = MULTIPLEXED   PARALLEL_1 Parallel Port Adapter
IRQ Level = 11  PCI Pin = NONE  Flg = MULTIPLEXED   SERIAL_2 Serial Controller
IRQ Level = 14  PCI Pin = NONE  Flg = SHARED        DPT20XX_0 DPT PM20x SCSI
                                                    Host Adapters
```

FIGURE 1



Correction:

Due to production gremlins of unspecified origin, an entire section of last month's OS/2 column was badly garbled. Here is the corrected text of the section in question.

Apologies to the nice folks at QuickPath, who can be reached at 1-800-995-8828, and to our readers who were inconvenienced by this chaos.

—eds.

FlexPort 42

As its name implies, QuickPath's FlexPort 42 provides four 16550-based serial ports (fully configurable in terms of IRQs and addresses) and two parallel ports, which can be configured as uni- or bidirectional. The ports can be disabled.

The jumper configuration and documentation are clearer and easier than 4-COM's, though not perfect. It uses a spider cable. If your PC case does not have special slots for ports, the parallel ports are installed using two metal brackets that come with the card, in which case it takes one slot and the ports take the back ends of two other slots. Given how close it comes to the ideal I/O card for OS/2, it is unfortunate that the 42 is not more visible—I looked for such a product for a long time and did not know one existed in my back yard, so to speak.

I configured the 42 as follows:

COM1: IRQ4/3F8 external modem
COM2: IRQ3/2F8 disabled (used by SatisFAXtion)
COM3: IRQ11/3E8 free
COM4: IRQ12/180 mouse (2E8 address used by ATI video card)

Note that an I/O card must permit the use of "nonstandard" addresses. Quatech does not, both 4-COM and the 42 do, although not the same addresses.

I decided to use the two ports from the 42 and the port from my old I/O card, as follows:

LPT1: 3BC/IRQ7 laser printer
LPT2: 378/IRQ7 DeskJet 540
LPT3: 278/IRQ5 tape drive (old I/O card)

This configuration avoids the sharing of IRQ7 by two ISA adapters, and I figured that the two printers will work one at a time. I also prefer the bidirectional ports for the printers. (The virtual print-to-fax driver in FaxWorks for OS/2 was also set at LPT3, see next column [this issue, #134] for a solution).

For reasons already explained, the port configuration should be verified in DOS first. Tapcis, my DOS front end to CompuServe, can be configured for nonstandard IRQs and addresses, but MacMail, a DOS front end to MCI Mail, cannot. By using the mouse on COM4 (the Logitech Cordless mouse can be set for any COM port and IRQ), I was able to work around the problem (but see below).

The BIOS of older systems (mine is a 1988 Phoenix) may not recognize "unconventional" COM3 and COM4 configurations and thus DOS and applications using BIOS calls won't be able to use them. The CTS utility Find_Com finds and writes them in the BIOS area, as shown in Figure 1 [see issue #133, p. 68].

I ran CTS's IRQInfo and Portinfo utilities, with the results shown in Figures 2 and 3, respectively see issue #133, p. 68].

With the configuration confirmed and both printers working in DOS I was ready for OS/2 (the only exception was MacMail which did not work with the external modem, so I continued to use the SatisFAXtion—which is what backups are for).

For whether and how all this works in Warp, stay tuned. ■

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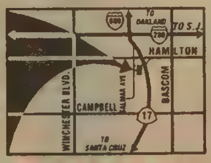

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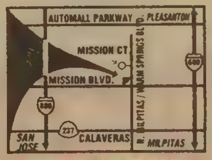

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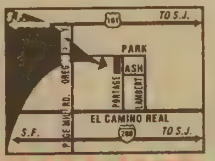

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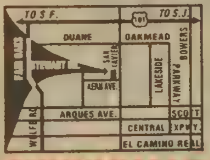

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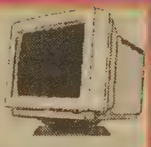

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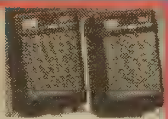

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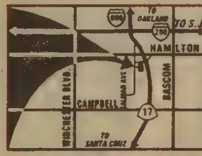

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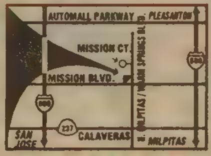

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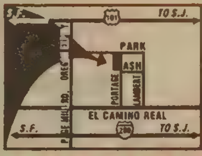

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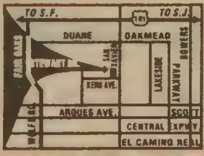

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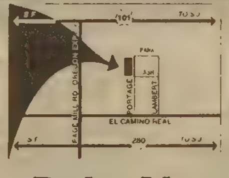

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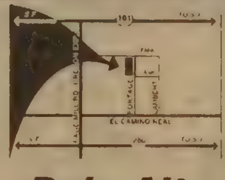

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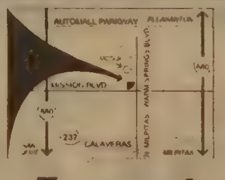

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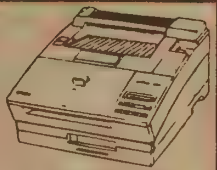

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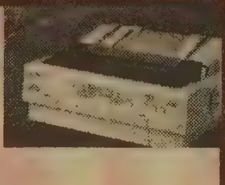

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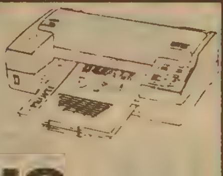

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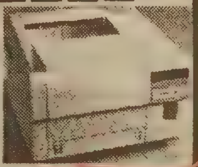

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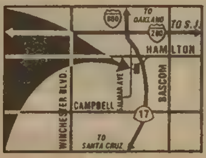

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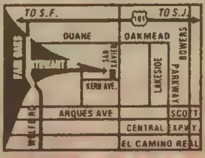

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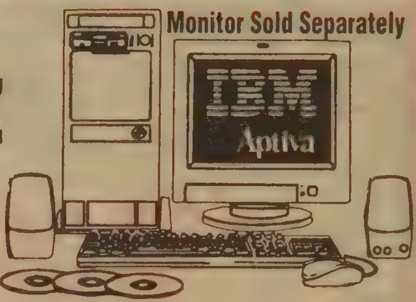

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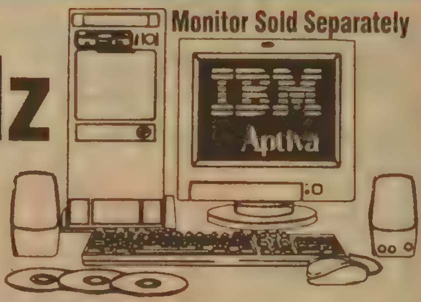

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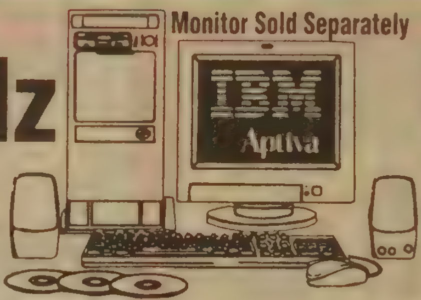

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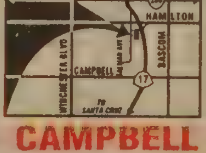

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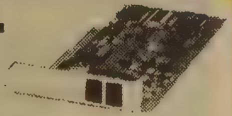

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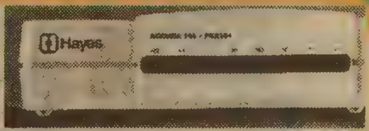

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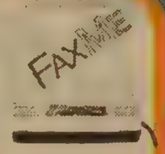

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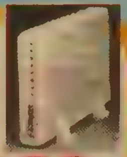

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- V.42bis Data Compression for Throughput Up to 115,200bps
- High-Speed 16C550 UART Serial Card on board
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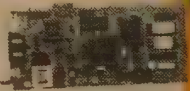

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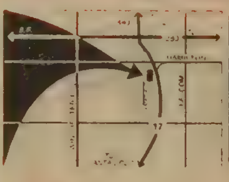

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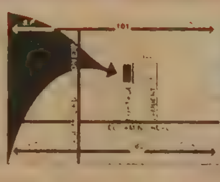

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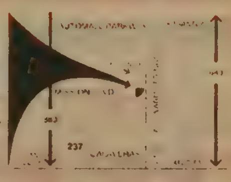

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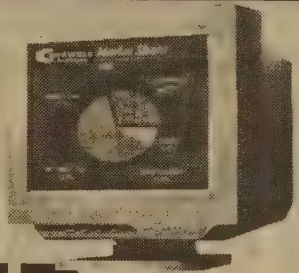

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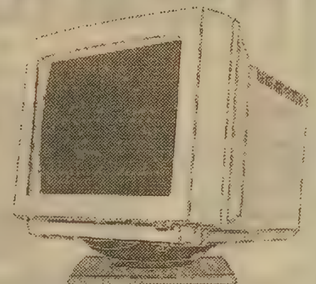

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SuperScan™ 15s
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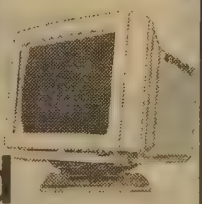

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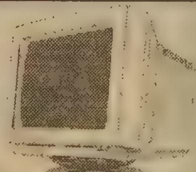

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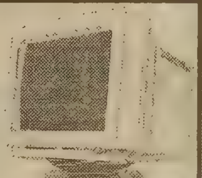

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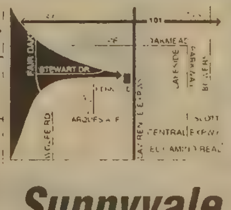

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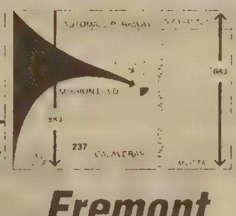

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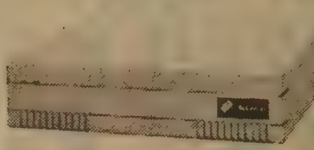

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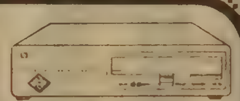

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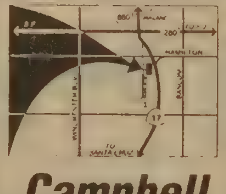

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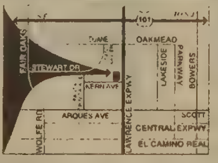

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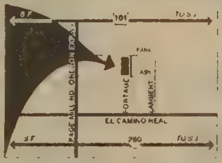

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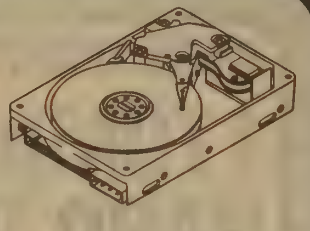

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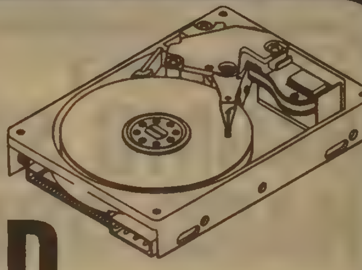

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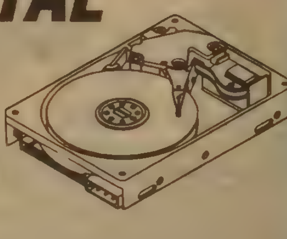

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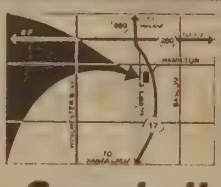

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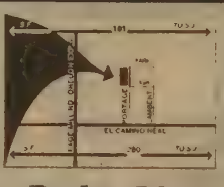

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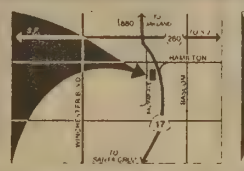

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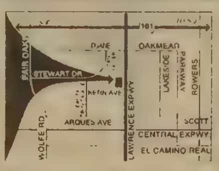

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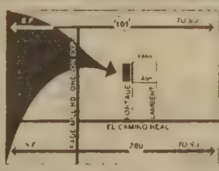

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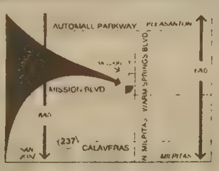

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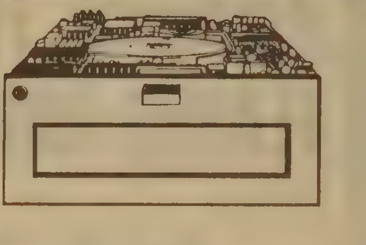

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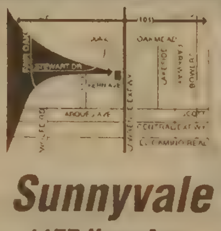

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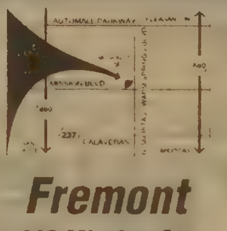

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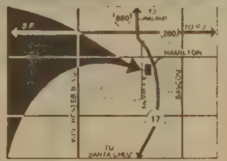

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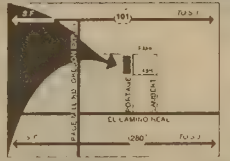

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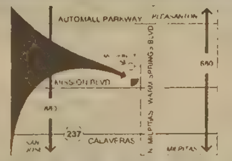

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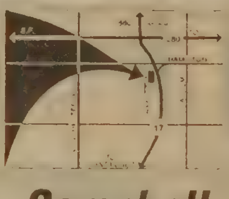

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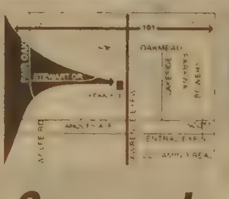

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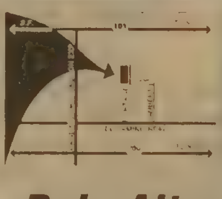

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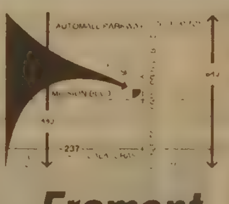

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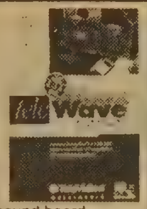

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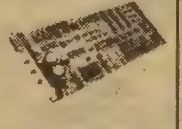

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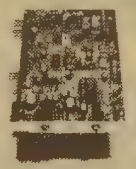

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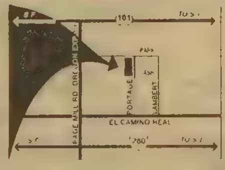

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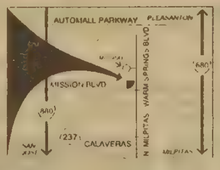

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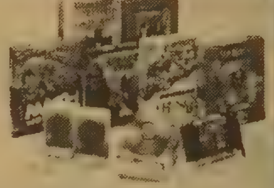

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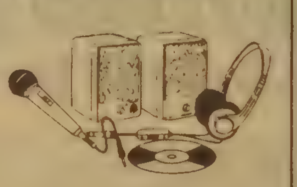

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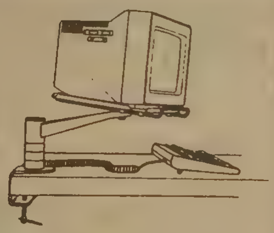

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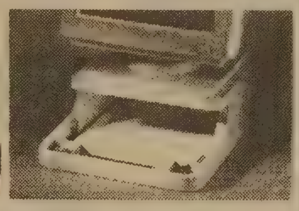

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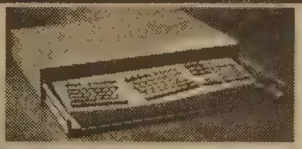

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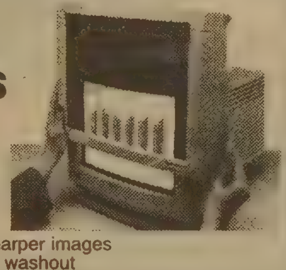

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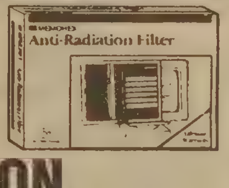

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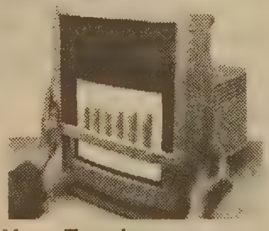

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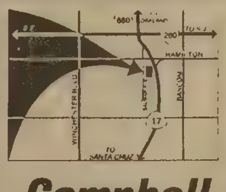

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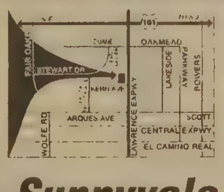

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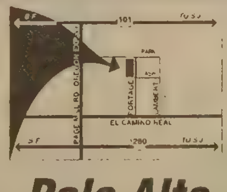

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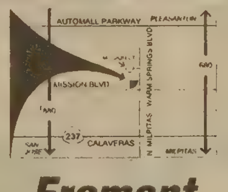

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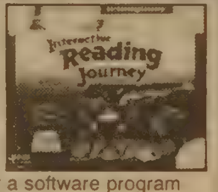

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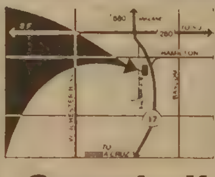

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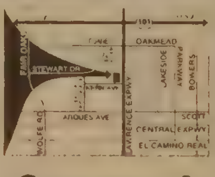

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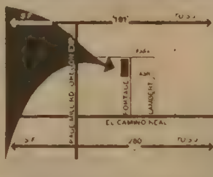

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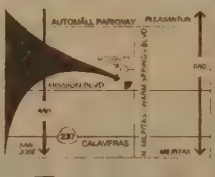

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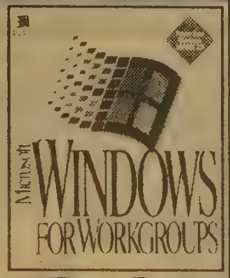

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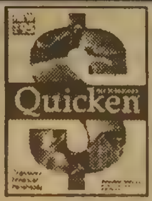

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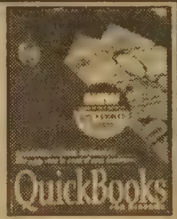

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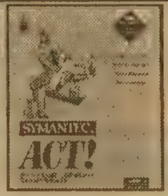

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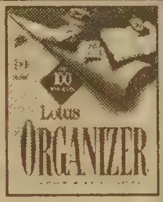

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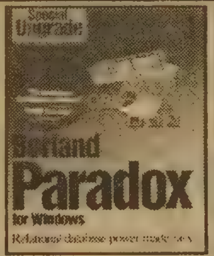

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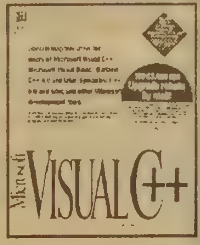

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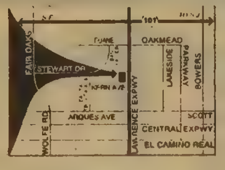

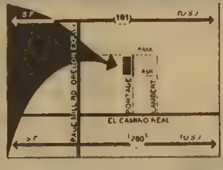

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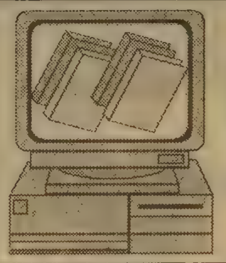

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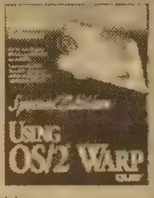

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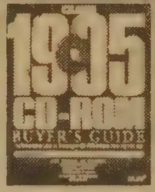

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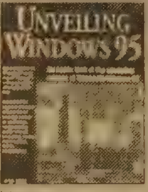

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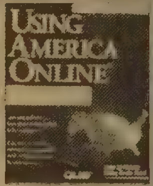

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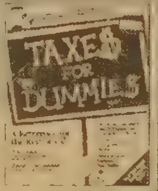

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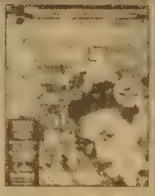

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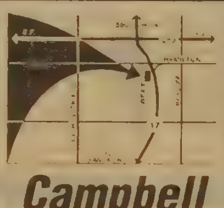

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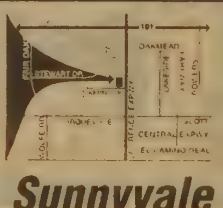

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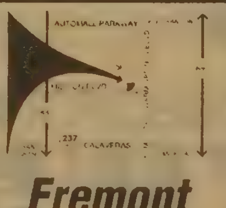

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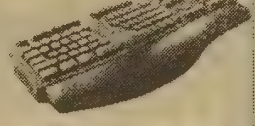

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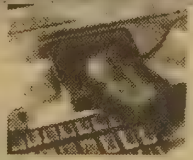

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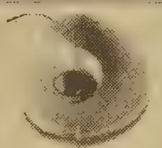

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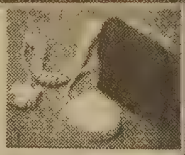

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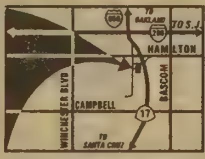

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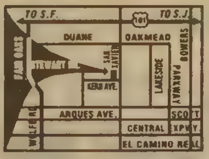

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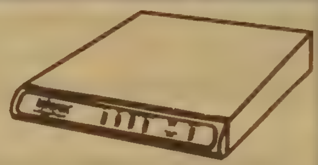

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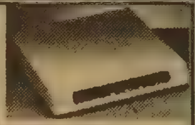

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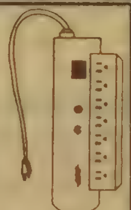

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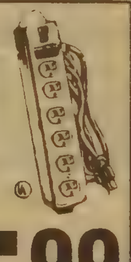

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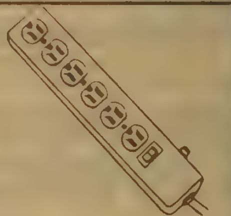

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*After $2 Mail-In Rebate. In-Store Price.. $3 99

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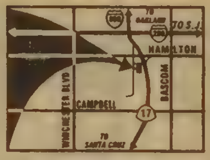
Corporate PO Fax Numbers



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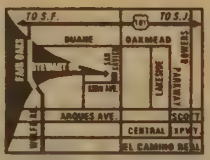

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THE WORLD'S BEST FAX MACHINES

brother

THERMA PLUS PAPER

FAX MACHINE
WITH PAPER CUTTER

ACS ANTI-CURL SYSTEM

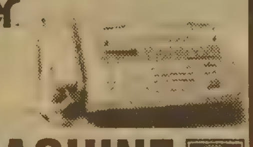
Brother's breakthrough fax machine incorporates newly developed therma plus technology which uses fax paper that feels like plain paper and reduces print fading (lasts 3 times longer than thermal paper under normal filing conditions, and you can even use a highlighter!). Other features include, 10 page document feeder, 15 station memory, 16 level grey scale, activity report, polling and much more for only...

$249

Model
FAX-620
#1896510

brother

THERMA PLUS PAPER



FAX MACHINE
WITH 256K MEMORY, OUT OF PAPER RECEPTION & BROADCASTING

ACS ANTI-CURL SYSTEM

If your looking for a fax machine for your home office or workplace, look no further than this premium valued fax machine from Brother that incorporates 256K memory for Out-of-Paper Reception and Sequential broadcasting with Auto Paper Cutter, 60 Station Memory, 32 Level Gray Scale, 16 Digit LCD Display, 15 Page Document Feeder, Therma Plus paper capacity, an Anti-Curl System, Super Quick-Scan, Alphabetic Telephone Index, and much more! An excellent value at only...

$299

Model
FAX-740
#1985218

brother

THERMA PLUS PAPER

FAX MACHINE
WITH 1MB MESSAGE CENTER & PC LINK CAPABLE

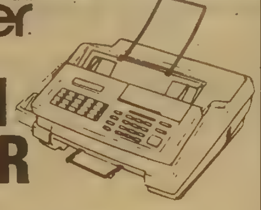
ACS ANTI-CURL SYSTEM

Brothers revolutionary fax machine offers a digital message center for either18 minutes of recording, up to 50 page of memory for out of paper reception, or you can configure the storage memory to be usedon a first come first serve basis. The optional missing link will allow this fax machine to act as a PC/fax modem, a scanner, and a printer! Other feature include anti-curl system, uses ThermaPlus paper, quick-scan, 164' paper roll capacity, 15 page document feeder, auto cutter, sequential broadcasting, and 60 number memory just to name a few.Now only...

$399

Model
FAX-820
#1925195

brother



PLAIN PAPER FAX
WITH 256K MEMORY

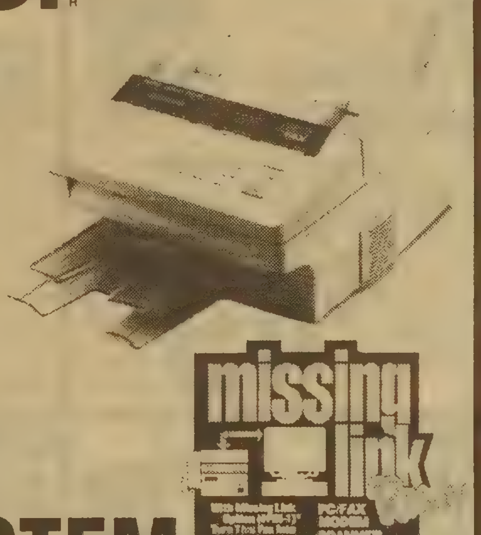
Brother's done it again! Last year Brother broke the $400 price barrier in paper cutter Fax, and for an encore, Brother has destroyed the $799 stand alone plain paper Fax barrier with this unbelieveable value. Its 200 sheet paper cassette, 30 page auto document feeder, on-screen programming, "smoothing" enhanced image resolution, 48 digit LCD display, multiple resolution transmission, 32 level grayscale, 160 station memory, and Fax/Tel Switch makes this the best value you will find at only.....

$549

Model
FAX-980
#1801828

We're at your side.

brother®



PLAIN PAPER LASER FAX AND COPY SYSTEM
WITH PC LINK CAPABILITY

missing link

PC/FAX
MODEM
SCANNER
PRINTER

Brothers state-of-the-art Laser fax machine combines laser print quality with copier capabilities of up to 99 continuous copies along with reduction and enlargement capabilities, and PC Link capability enabling you to utilize the laser fax machine as either a Scanner, PC/Fax Modem, or a printer! Other features include 256k memory for out of paper reception or sequential broadcasting, 30 page document feeder, 200 page sheet paper tray, 140 station memory, 32 level gray scale, and much much more! The best home office investment you will ever make at just...

$799

Model PPF-2500
#1925173

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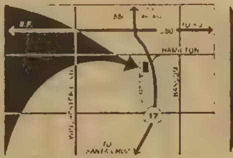

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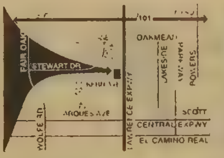

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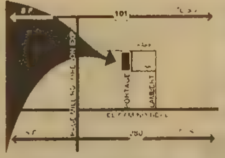

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GET ORGANIZED

AT FRY'S ELECTRONICS

SHARP ORGANIZERS

SHARP

34K PERSONAL ORGANIZER

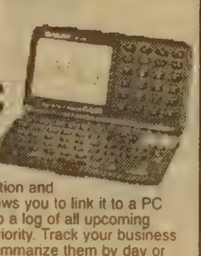
Perfect for the business person on-the-go, this compact data bank incorporates a 14 x 3 line display, built-in calendar, schedule, phone /memo, memo pad, expense, clock, anniversary, and calendar functions as well as QWERTY keyboard to simplify data entry. Once you've used this electronic marvel, you won't leave your home or office without it.

$\$49^{95}$

Model YO-110
#1741472

SHARP

128K ELECTRONIC ORGANIZER



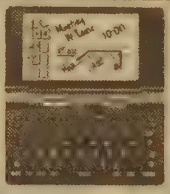
The Sharp YO-370 is a pocket sized, personal information and time management tool that allows you to link it to a PC (with optional accessory). Keep a log of all upcoming projects and sort your list by priority. Track your business and personal expenses and summarize them by day or between days. It also stores birthdays, anniversaries and holidays and provides advance warning for these important events Stores 1,680 names and numbers or 1,040 schedule appointments (128K) all for the low price of

$\$118^{95}$

Model YO-370
#1955367

SHARP

512K PEN BASED ORGANIZER



512K of memory, easy-to-use database, calendar, schedule, anniversary, phone directories, to do lists, PC/Mac connectivity as well as, standard infrared communications capability for sending data to another wizard or a printer, make this Sharp organizer an excellent investment for anyone with too much to do and to little time to do it in! Now just...

$399

Model OZ-9520
#1902897

CASIO ORGANIZERS

CASIO

32KB DATA BANK

Perfect for the business person on the go, this compact data bank incorporates a 16 x 4 line display with a daily alarm, schedule alarm, calendar display, memo function, 6 currency conversion memories, and a clock with world time function (29 different time zones including 27 cities) all for only...

$\$49^{99}$

Model SF-A10
#1728462

CASIO

B.O.S.S. WITH 128K MEMORY

This business organizer scheduling system comes packed with powerful functions that are practical and easy to use. The QWERTY Keyboard, telephone directory, calendar, memo function, schedule alarm, world time function, home time function, and schedule keeper will prove to be an invaluable tool in keeping your busy days in order. An excellent investment at...

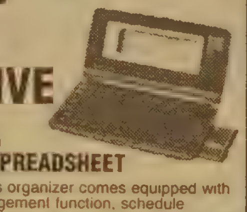
$\$118^{95}$

Model SF-7900
#1956818

CASIO

256K EXECUTIVE B.O.S.S.

WITH BUILT-IN SPREADSHEET



Casio's latest business organizer comes equipped with a business card management function, schedule function, two month calendar display, world time, a daily alarm , schedule alarm, telephone directory, memo functions, reminder function, to do list, cut & paste function, and spreadsheet function (compatible with Lotus 1-2-3 data) all displayed on a wide 40 character by 10 line screen. An Invaluable investment at only .

$\$259^{99}$

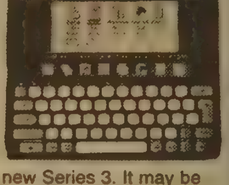
Model SF-R20
#1728473

PALMTOP COMPUTERS

PSION SERIES 3

POCKET SIZED 512K COMPUTER

WITH BUILT-IN SPREADSHEETS



Psion has redefined the state of the art in hand held computers with the new Series 3. It may be small, but this pocket-sized programmable computer comes equippedwith features found in desktop machines plus powerful built-in software, including a full specification word processor and outliner that's compatible with Microsoft word. When using the Series 3 you will quickly learn from the system of graphic displays and option list how easy the Series 3 is to use. And with Psion's unique Multitasking Operating System, as many of the facilities as you want can be used at the same time! Other features include an automatic phone dialer,world information, a time and personal management file, powerful graphics programming language (OPL/w) which will enable you to write your own applications and two expansion ports for plug in SSD devices for unlimited memory and software.

$399

Model SERIES 3A
#1843567

HEWLETT PACKARD
Authorized Dealer

1MB PALMTOP COMPUTER

WITH 80x25 FULL SCREEN
MS-DOS 5.0 & BUILT-IN POCKET QUICKEN

The smallest, lightest HP PC ever comes equipped with complete organizer software to manage your time, tasks and data, plus you can retrieve information instantly with a full range of built-in personal productivity tools The pull-down menus and dialogue boxes make it simple to master the familiar commands, and the high-resolution display with zoom option is easy to read ! With Lotus 1-2-3 built-in you will have full spreadsheet capability, including graphics and macros. Also includes CC:Mail built-in. Now only

$\$498^{99}$

Model HP-200LX
#1941670

PCMCIA 1.5MB FLASH MEMORY CARD

For HP Palmtops
Maxtor 1.5MB

$\$149^{95}$

Model Mobile MAX
#1979758

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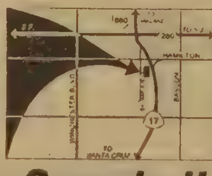

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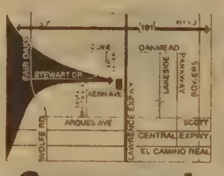

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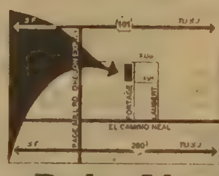

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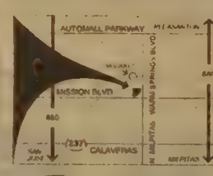

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BUSINESS PHONES

Panasonic

SPEAKERPHONE

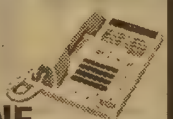
For the office or home, this phone has all the features you need. It has a speaker phone, 28 station automatic dialer, automatic redial and much more.

$49.95

Model KX-T2315
#1530100

Panasonic

TWO LINE SPEAKERPHONE



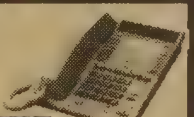
A perfect compliment to your home or office, this two-line speakerphone comes equipped with 3-way conferencing, 20 number programmability, seperate ring switches for each line, and a local mode function. Now only...

$69.95

Model KX-T3120
#1510676

Panasonic

2-LINE SPEAKERPHONE WITH LCD DISPLAY



From Panasonic comes this fully featured 2-line speakerphone with LCD display, 3-way conference call, volume control for speaker and handset, 24-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

$89.95

Model KX-T3175
#1745122

Panasonic

THREE LINE SPEAKERPHONE WITH LCD DISPLAY

From Panasonic comes this fully featured 3-line speakerphone with LCD display, 3-way conference call, volume control for speaker and handset, 48-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

$169.95

Model
KX-T3185
#1768039

HIGH TECH CORDLESS PHONES

Panasonic

30 CHANNEL PALM-SIZED EXTENDED RANGE 900MHz CORDLESS PHONE

This Panasonic 900MHz cordless phone features a unique palm-sized design with lighted keypad, 30 channel access, high gain rubber antenna, reversible handset, sound charger, noise reduction technology, and more, all for just....

$199.95

Model KX-T9500
#1948839

Panasonic

10 CHANNEL CORDLESS PHONE

WITH 30 MINUTE CAPACITY ALL DIGITAL ANSWERING MACHINE

Panasonic has combined a premium performance 10 channel cordless phone with features that include LCD display on handset, 21 day battery stand by, intercom, 2-way paging, 10 number speed dialer and a 30 minute all digital answering machine that offers 4 mail boxes, voice time/day stamp, message scan (plays first 5 second of each ICM), message transfer, selective message delete, 2-way recording, and much more. Now only...

$279.95

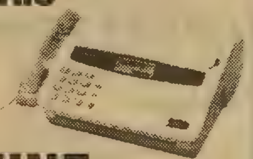
Model KX-T4600
#1841934

FAX MACHINES

Panasonic

FAX MACHINE

WITH PAPER CUTTER, SPEAKERPHONE AND ALL DIGITAL ANSWERING MACHINE



Panasonic line of fully featured fax machines start with this compact model which includes 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode, telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just...

$349

Model
KX-F750
#1944282

Panasonic

PLAIN PAPER FAX MACHINE

WITH 20 PAGE MEMORY

The ultimate plain paper fax from Panasonic features a jumbo LCD display, 70 page paper cassette, adjustable letter/legal tray, 32 level halftones, polling, activity reporting, 20 page document feeder, broadcasting to 128 locations, fax transfer, enlargement and reduction copier functions, fax/tel switch, 28-station one-touch dialer, 100-station speed dialer, telephone directory with alpha-search, and much more! Now just.....

$699

Model
KX-F3000
#1850626

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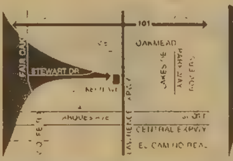

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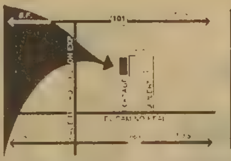

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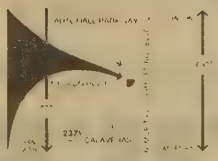

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FOR HOME OFFICE
SERVICE, SELECTION & SAVINGS

SPEAKERPHONES

BELL Phones
BY NORTHWESTERN BELL PHONES

SPEAKERPHONE
WITH 13 NUMBER MEMORY

The convenience of a handsfree speakerphone allows you to do other tasks while having a conversation on the phone. Features include 13 number memory, auto redial, mute, flash, and more An excellent addition to any home or office at only...

$\$19^{99}$

Model 4350
#1917518

SONY.

SPEAKERPHONE
WITH 32 NUMBER MEMORY

From the leader in cordless phone technology comes a new line of feature phones. This unit has a crystal clear speakerphone, 32 number memory and more!

$\$49^{95}$

Model IT-D100
#1516878

Panasonic

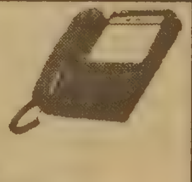
LCD READOUT SPEAKERPHONE

This outstanding value from Panasonic offers a 12-digit LCD readout for phone number, clock, call timer (minutes & seconds), and operating modes. Perfect for the home or office at only...

$\$69^{95}$

Model KX-T2365
#163665

SONY.



TWO LINE FEATURE PHONE
WITH SPEAKERPHONE

Phones with 2-line operation are relatively common, but this phone offers a distinctive ring for each line! The LCD indicator will tell you the number dialed and the time. Now only..

$\$79^{95}$

Model IT-D250
#1516904

MULTI-LINE PHONES

BELL Phones
BY NORTHWESTERN BELL PHONES

TWO LINE PHONE

Perfect for the home office with multi-line needs, this 2-line phone from Northwestern Bell features line-in-use LEDs, 3-way conferencing, 15 number memory, hold, flash, pause, and ringer controls. An excellent value at...

$\$39^{99}$

Model Easy Touch 2202
#1890905

Panasonic

TWO LINE PHONE

A two line phone doesn't have to cost a fortune. Panasonic has the low cost answer for you. This unit has a convenient auto dialer, conference calling and much more!

$\$69^{95}$

Model KX-T3110
#1505313

Panasonic

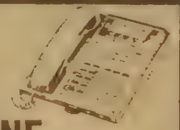
TWO LINE SPEAKERPHONE
WITH LCD DISPLAY

From Panasonic comes this fully featured 2-line speakerphone with LCD display, 3-way conference call, volume control for speaker and handset, 24-station one touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only..

$\$89^{95}$

Model KX-T3175
#1745122

AT&T



THREE LINE SPEAKERPHONE

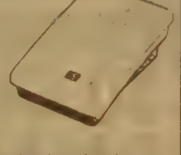
AT&T's multi-functional centrex compatible 3-line speaker -phone comes equipped with page, intercom, 3-way conference, LCD display, 40 number memory, auto line selection, hold, do not disturb function, auto-redial, mute, programmable pause, call transfer, flash, seperate ringer controls, and more, all for only .

$\$179^{95}$

Model 843
#1853892

ALL DIGITAL ANSWERING MACHINES

AT&T



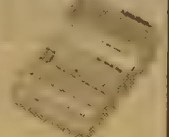
ALL DIGITAL ANSWERING MACHINE

This AT&T answering system utilizes tapeless digital technology to ensure consistent recording quality over the life of the system The convenience of new message playback, outgoing message bypass, remote system turn on or off and remote message recording makes this an excellent value at only.

$\$59^{95}$

Model 1710
#1853906

BELL Phones
BY NORTHWESTERN BELL PHONES



ALL DIGITAL ANSWERING MACHINE
WITH TIME DAY STAMP & 13 MINUTE CAPACITY

This fully featured all digital answering machine from Northwestern Bell comes equipped with Time/Day Stamp, Programmable Security, Selective Skip or Erase Call Screen Extension Pickup, Auto Disconnect, Multiple Memo Record, Toll Saver, VOX, 13-Minute Capacity, Remote Access, and much more! An incredible value at just

$\$49^{99}$

Model 700
#1964820

GENERAL ELECTRIC
GE We bring good things to life

ALL DIGITAL ANSWERING MACHINE
WITH THREE MAIL BOXES

With three mailboxes to choose from, members of the household can have messages stored for them in their own mailbox! The all digital capability eliminates the need for moving parts and allows for instant playback of incoming messages-no need to wait for a tape to rewind or fast forward! Other features include voice time/day stamp, two outgoing messages, digital counter, selective message erase and much more for only...

$\$79^{95}$

Model
2 9876
#1839261

AT&T

10 CHANNEL CORDLESS SPEAKERPHONE
WITH 26 MINUTE CAPACITY & ALL DIGITAL ANSWERING MACHINE

From AT&T the leaders in telecommunication technology comes this state-of-the-art 10 channel cordless speakerphone with 26 minute capacity All Digital Answering Machine. With features that include 2-Way Page and Intercom, Hold, Last Number Redial, Time/Day Stamp, Multiple Outgoing Announcements, Voice Prompts, Digital LED Message Display, Call Intercept, Call Screening, and much more, AT&T has developed an invaluable addition to any home or office for just

$\$219^{95}$

Model 5650 #1919543

900 MHz CORDLESS PHONES

uniden

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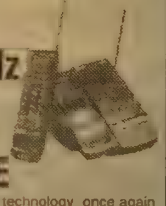

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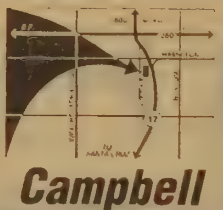

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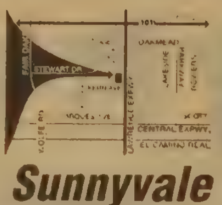

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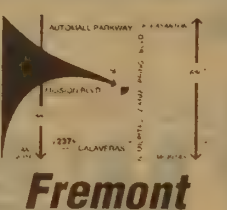

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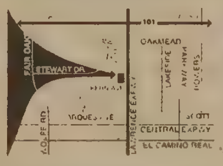

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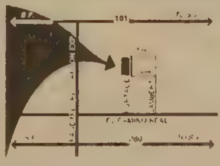

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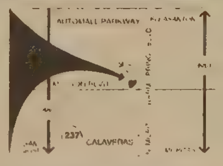

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continued from page 120

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Computer Science Technical Report Service

As part of the DARPA Electronic Library Project, the Database Group at Stanford provides a free service to disseminate information about computer science technical reports. If you're a computer scientist, listen up. And if you're not, listen anyway; this will still give you an idea of the power of knowbots.

A user interested in receiving bibliographical records of technical reports available from the Math/Computer Science Library at Stanford submits their "interest profile" to the service. Periodically they will receive new information relevant to their interests via electronic mail.

Queries formed as plain English text (for example "high-speed fiber optics communication") are submitted via email. Abstracts of technical reports are returned based on their relevancy to your query. As new and relevant reports are added to the database, the knowbot will inform you. Some of them are available digitally—you can receive the full text with a simple emailed request. For others, you'll have to trek to your local library (or Stanford's) for the actual report. For more information about using the service, send email with the word "help" in the message body to *elib@db.stanford.edu* .

What's Next?

Admittedly, computer science technical reports are pretty dry, and only of interest to a small group, but imagine what might be done with other databases running on knowbot servers. How about a recipe database, updated weekly, that automagically emails you vegetarian recipes featuring red potatoes or asparagus (but not beets)? Or an archive of *MicroTimes* articles that sends you everything mentioning Macintosh, except for stuff by that pesky John Dvorak?

Stay tuned. I predict those things (and more) are coming to the Internet, sooner or later.■

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Subject: request
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search: articles
possible: laurie anderson,negativland,they might be giants
selectivity: 20

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To: savetz@northcoast.com
Subject: Your NewsHound request
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Title: INTERNET
Search: articles
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Excluded: information superhighway
Selectivity: 30

Title: MUSIC
Search: articles
Possible: laurie anderson,negativland,they might be giants
Selectivity: 20

Title: SUN
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Possible: sun,sparc,sparcstation,unix,macintosh,mac
Required: for sale
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From: NewsHound@sjmercury.com (NewsHound)
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Student-Run Radio Station a First on The Internet
By JULIANNE BASINGER, Associated Press Writer
CHAPEL HILL, N.C. (AP) — The campus radio station at the University of North Carolina is serving up its musical fare to a wider audience these days: Listeners abroad can jam along — if they have the right computer.

WXYC-FM recently jumped onto the Internet, becoming the first radio station to offer 24-hour programming on the air and the global computer network simultaneously.

People who want to listen can do so by gaining access to the university's site on the World Wide Web, a part of the Internet that has become popular because of the development of sound, video and graphical features. ...

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Subject: Elib Response
Search: knowbots information filtering
Threshold: 50
Score: 66
ID: 124547
Location: Math/CS Library
Author: Goldberg, D.
Author: Nichols, D.
Author: Oki, B.
Author: Terry, D.
Title: Using collaborative filtering to weave an information tapestry.
Institute: Xerox Corporation. Palo Alto Research Center.
Report: CSL-92-10.
Date: 1992.
Keyword: Continuous query.
Keyword: Information filtering.
Keyword: Active database.
Keyword: Query rewrite.
Keyword: Bounding monotonic query.
Keyword: Incremental query.
Keyword: Query language.
Score: 59
ID: 025494
Location: Math/CS Library
Author: Yan, Tak W.
Author: Garcia-Molina, Hector.
Title: Index structures for information filtering under the vector space model.
Institute: Stanford University. Department of Computer Science.
Report: STAN-CS-TR-93-1494.
Date: 1993.
Score: 55
ID: 124542
Location: Math/CS Library
Author: Terry, D.
Author: Goldberg, D.
Author: Nichols, D.
Author: Oki, B.
Title: Continuous queries over append-only databases.
Institute: Xerox Corporation. Palo Alto Research Center.
Report: CSL-92-5.
Date: 1992.
Keyword: Information filtering.
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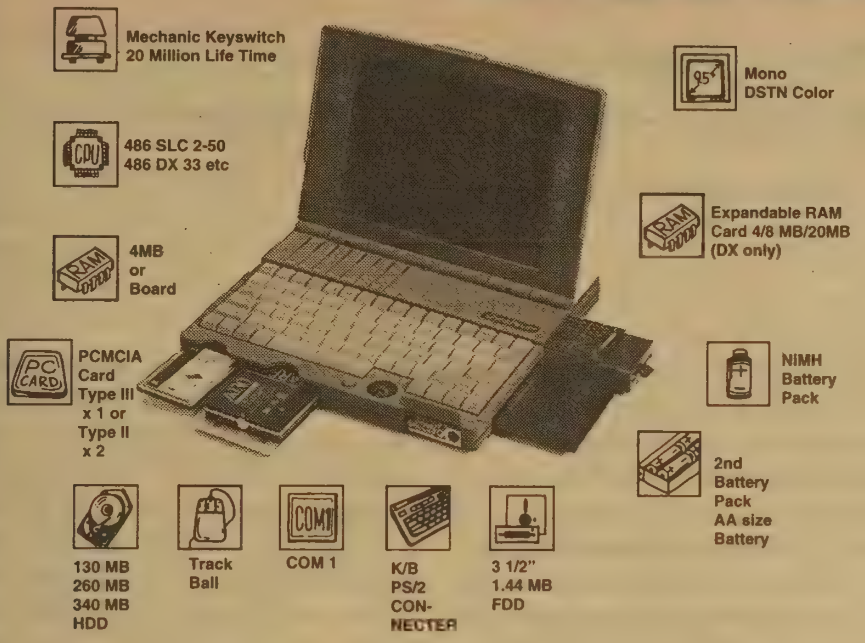

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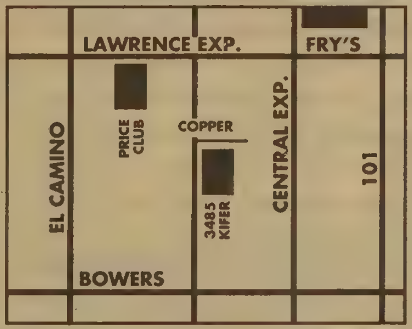

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BMUG

Macworld: The Adventure Continues
Plus: The No-Vowels Trojan Horse; Wet-Weather Tips

BY DAVID MORGENSTERN

The water poured from the heavens, but it didn't chill the spirit of the 49er faithful, sitting in Candlestick Park cheering on the home team; nor did it dampen the ebullience of Macintosh aficionados slogging through the streets heading to Moscone Center for the Macworld Expo.

Both shows went on despite the storm of the decade. So we'll take a look at some of the strange sights on and off the floor, as well some new products debuted at the show.

I'll also give you a couple of stormy weather tips and a warning of a genuine Trojan horse making its way around the globe.

Under- And OverEXPOsed

Every year the Macworld Expo rolls around. And every year we hear the saws from the old geezers about bygone shows and the ground-breaking technology that once set their hearts beating faster. These denizens of the BMUG peanut gallery view their data through rosy-colored monitor shields and nothing is as good as their very first Expo.

But this year's show was wonderful. Really. It was great—not for the heat of discovering some breathtaking wizardry, but rather satisfying in the renewal of a long relationship that has grown richer each year.

The biggest events of the Expo were actually held off the show floor. The news of Macintosh clones was passed by word of mouth from press conferences and hotel suites to booths and parties. BMUGers looked forward to the three Cs: Choices, Competition, and Cost savings.

Some people were uncertain about the quality and compatibility of the new machines. They worried that the new machines were not really Macs, but changelings or cuckoo's eggs. "How Mac-ish is it really they asked?".

Others, like longtime BMUGer Herb Dang, an engineer for the City of San Francisco, were more adventurous and looked forward to expected lower prices. With government contracts requiring low bids, Herb doubted he would ever see a "real" Mac on a municipal desktop again.

The BMUG booth was packed with bargains, as well as the latest semi-annual advertisement-free 450-page newsletter. The newsletter is chock full of terrific articles, including flames over the latest incarnation of Microsoft Word and the inside scoop on QuickTime Virtual Reality. Of course, there's the always informative BMUG Choice Product list, which runs down the products that we've found really work; not just during a marketing demo, but in everyday use.

The booth featured a new book by BMUG's video gurus, Judith Stern and Robert Lettieri. *QuickTime: The Official Guide for Macintosh Users* from Hayden Books builds upon their earlier work, *Quicker QuickTime*, and covers everything from playing movies to editing and compression. The $45 tome comes with a CD-ROM packed with 600MB of QuickTime and graphics utilities, as well as a bunch of digitized movies.

There were some oddball sights around and about the Expo. The Ambient Room was a suite in Moscone Center sponsored by a group of CD-ROM and magazine publishers. The room was dimly lit and filled with the rancid smoke of cheap incense—it could have been expensive, but who can tell the diff'? It was littered with broken-down sofas, throw pillows, and lava lamps. People stared at Mac displays running Ion's *Gingerbread Man* by the Residents and Brian Eno's *HeadCandy* CD-ROMs. Paper eyeglasses with diffraction gradient lenses that multiplied the groovy images were also handed out. And all this laid-back fun started at ten o'clock in the morning. Where's the espresso?

The wildest party at the Expo was the very very late night Mac Black party cosponsored by a pair of vendors, the Apple chapter of Act Up, and *MacWEEK's* Mac the Knife. Unlike the black-tie get-togethers of the captains of Mac industry, this black-leather-recommended event was held at the Bondage A Go Go Club. It must have been a real eye-opener for the more sheltered attendees. Above the ear-splitting music flooding the dance floor was an unusual BMUG meeting—the Bondage and Masochist User Group! Plenty of sweaty upper lips, whipping, and spanking; in fact, just like some show-floor product demonstrations.

Expo Factoids

Here are some of the products that sparked a byte of interest from the BMUG crowd:

•A pair of new graphics applications got Hans Hansen, BMUG's publications boss, out of our booth and into the crowds to peer at product demos. His favorite was FutureWave Software's forthcoming SmartSketch, a cool drawing program due by June.

The $99.95 software combines the paradigms of a paint program with the functionality of a drawing program. Users can remove parts of an image with an eraser tool and the application automatically reconnects up all the points, lines, patterns, and objects.

Its interface is simple and provides users with familiar and direct tools. Instead of requiring people to deal with nasty Bezier handles to reshape a line, you just click on a point and drag. Very cool.

The other application, LightningDraw GX by Lari Software, is a horse of a different color. It requires Apple's new imaging systemware, QuickDraw GX, to function.

GX provides a new color, text, and graphic architecture for printing, displaying to a monitor, or even to a digital document. It has a very cool way of handling text outlines and even supports right-left and up-and-down text for Japanese.

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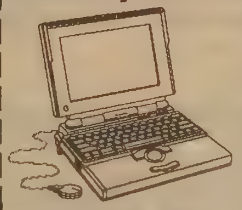

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access the power of GX with the usual palettes of image handling tools. It allows text transformations, including automatic kerning, ligatures, and hanging characters. The color blending is really amazing.

LightningDraw GX is also due out in the spring.

•A big hit at the show was Visioneer's $199 PaperPort, a high-design desktop scanner. It looks much like a rolling pin. The device not only scans in pages for images, but also offers faxing and optical character reading (OCR) capabilities.

PaperPort works with most fax software that comes with Mac modems. This is the missing link for using a fax modem, since there's often the need to scan in an already printed page or newspaper article. The device comes standard with the WordScan OCR software, which is supposed to automatically handle scanned business cards. If you already have an OCR package, the PaperPort will work with it.

•A couple of years ago, reporting on the goodies at the Tokyo Macworld Expo, I mentioned Aquazone, a fantastic aquarium simulation. Developed by a Japanese company, it lets you control dozens of settings for fish, water, and plants. If you don't take care of the fish, they will end up floating on the surface. No kidding.

The basic setup comes with two types of fish, a leopard catfish and neon tetra, but you can buy others, including the angelfish, Black Molly, dwarf pencilfish, and more. Each of the fish has its own name and specific genetic-based personalities; so when a pair makes babies, the offspring share the characteristics of the parents. The program is distributed in the States by Tecsys Computers Inc.

•Years ago in the early days of HyperCard, Brian Thomas created If Monks Had Macs, a fantastic stack of games, information, sounds, and links. The environment pulled together medieval concepts and worldview that showed the art as well as the power of hypertext.

The Voyager Company has just put out Brian's expanded CD-ROM version. The new Monks features extra games, additional links to digital books, and includes Brian's JFK Witness, a conspiracy tutorial. It also has an in-depth examination of Brueghel's *Tower of Babel* painting. It's a bargain at $34.95.

•Scott Boyd of *MacTech* magazine invented the QuickCap at the Expo. He stuck a QuickCam, Connectix's cool baseball-sized $99 grayscale video camera, to the brim of his hat and ran the serial line down to his PowerBook. He then shot a digital time-lapse movie of the entire show!

The Macworld Expo will roll into town again next year. If you've never gone, then start making plans and saving the dough right now. I know there will be even better goodies then!

Bytes And Pieces

•A few months ago there was a false report from AOL about a Trojan Horse program. Unlike computer viruses that spread themselves from disk to disk and system to system, a Trojan Horse pretends to be a program that you want to use. When you launch it, the software does something else—like erasing

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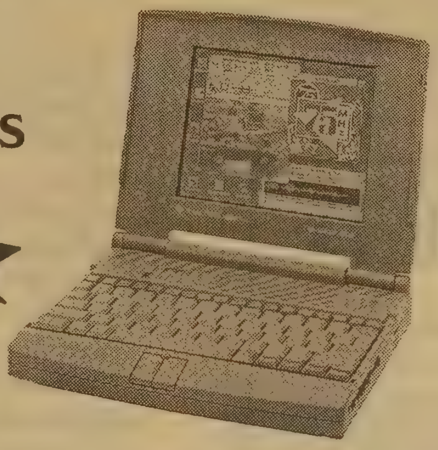

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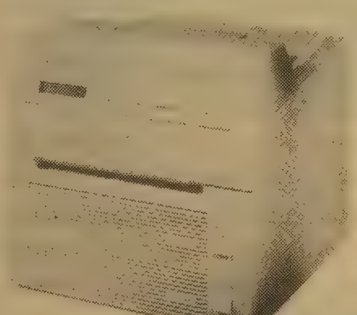

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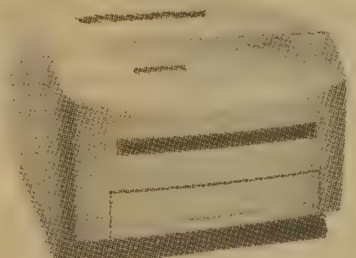

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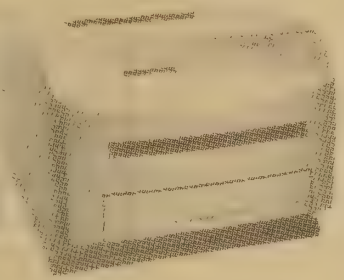

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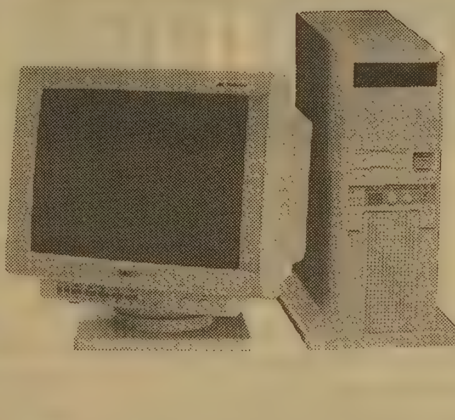

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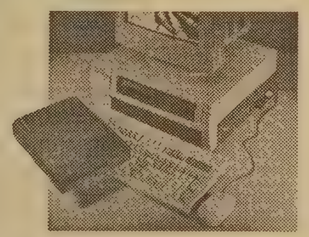

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FINANCE, LEASING, UPGRADE, REPAIR, AVAILABLE your hard drive! Now there's a report of a Trojan Horse that has proved to be the real thing.

In December, someone on AOL received a file called New Look 2.1, which turned out to be the Trojan Horse. Fortunately, it was not the usual utterly malicious kind. It only stopped users from typing the letters "a," "e," "i," "o," and "u." Who needs 'em! It was named the NVP, for No Vowels Prank.

The odd thing is that the Trojan Horse is an unwelcome reprise of an old practical joke. The program is based on NVwls, an extension written a couple of years ago at MacHack, the Macintosh programmers conference.

NVwls and four other oddball extensions were later released as the freeware "Annoyance Pack." Yet another programmer created No Vowels II and Yes Vowels II, respectively an installer and de-installer, to stick the code into a victim's System file. We can endlessly debate the humor of this joke and the wisdom of altering the System file, but at the time it all seemed innocent enough.

Unfortunately, an antisocial codemeister took the NVwls installer and turned it into a Trojan Horse. Kids, when it comes to negative hacking—*J_st s_y n_!*

Central Point, Datawatch, and Symantec, producers of commercial anti-virus products, have released patches for their utilities. If you own them, be sure to update your programs and extensions. There will not be an update to Disinfectant because the anti-virus program has never taken care of Trojan horses.

•BMUG's friends at DriveSavers, the commercial data recovery service in Novato, CA, recently sent out a tip sheet for protecting your data during the wet weather. There's more to consider than just backing up, although that's the gigantic first step.

They warn that during a storm, the power may suddenly go off. Although this may give you a fit if you haven't been saving your work every few minutes, the worst can occur when the power returns. As the power grid comes online, multiple surges will often flow into your house or apartment and zap your computer. The strength of these surges is often enough to overwhelm the circuits of most protectors.

A heavy rain can sometimes bring heavy-duty changes in humidity indoors. If water is in your building, or you feel a sudden shift in humidity indoors, shut down your computer. There's a chance that water vapor will condense on the components inside the computer case. This is a not good thing, so play it safe!

•Fractals are where it's at, according to longtime BMUGer Bernt Wahl, the founder of our Mathematics Special Interest Group. His new book, *Exploring Fractals on the Macintosh*, was just released by Addison-Wesley. The book and disk set is $34.95.

The book covers the gamut of fractal theory and offers many visual illustrations, as well as do-it-yourself programming examples. If you are interested in this practical field of science and mathematics, check it out!■

RESOURCES:

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Fax (714)955-4963

Visioneer
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Palo Alto, CA 94303
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What Is BMUG?

BMUG is an educational, nonprofit, consumer advocacy group organized to share information and provide critical direction to users and developers in the computer community worldwide. It is an independent advocate, not affiliated with any manufacturer, delivering trustworthy information and useful products.

Like any growing organization, it is many different things to its fifteen thousand international members. BMUG supports many special interest groups (SIGs), 18-line Planet BMUG and 11-line BMUG Boston BBSes, a software library, weekly meetings, publications, and much more. BMUG also puts out a semi-annual 500-page book that we call our "newsletter."

Our motto continues to be: *We're in the business of giving away information.*

Come and join in the dialogue at the BMUG main meeting every Thursday evening, 6:30–9:30 (or whenever we finish), on the UC campus. BMUG West and BMUG South are monthly meetings held in San Francisco and San Jose. Check the Announcement Line at (510)549-2684 ext. 8.

The BMUG Office, 2055 Center Street (a half block from the BART station), is open to the public 8:30 am–4:30 pm. Please come by, say hello, and meet other members.

The BMUG Helpline provides volunteer technical assistance and telephonic handholding for our members. If your question can't be answered on the spot, we try to get you in touch with someone who can help. Improve your Macintosh education and help others by becoming a Helpline volunteer!

BMUG has one of the most up-to-date, comprehensive software libraries around with hundreds of disks filled with the latest versions of public domain or shareware programs. BMUG also produces CD-ROM collections, including the digital video *TV-ROM ™Too*, and the *BMUG PD-ROM*.

Planet BMUG and BMUG Boston are graphical user interface FirstClass bulletin board systems, offering the latest in shareware, as well as news, private email, rumors, etc. With our 18-line capability, you can have access to BMUG almost 24 hours a day. It's easy to use, fun, and a great resource.

BMUG can be found on most online services, including e•World. BMUG can also be reached through the Internet network at *UG0001@applelink.apple.com* .

To get some further information about BMUG please write to: BMUG, 1442A Walnut Street, #62, Berkeley, CA 94709. If you prefer to phone our business office, call (510)549-BMUG, or fax (510)849-9026.

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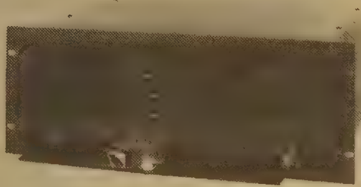

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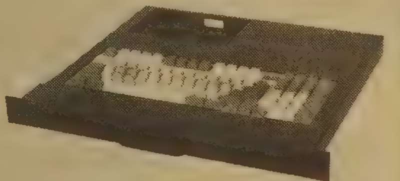

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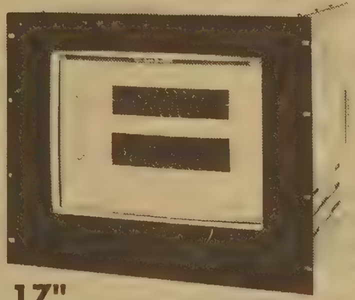

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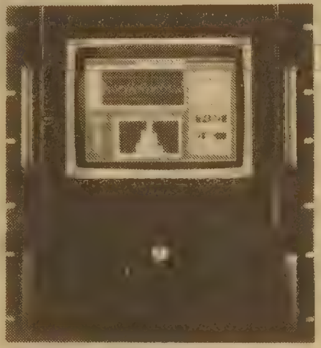

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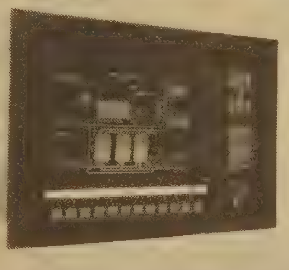

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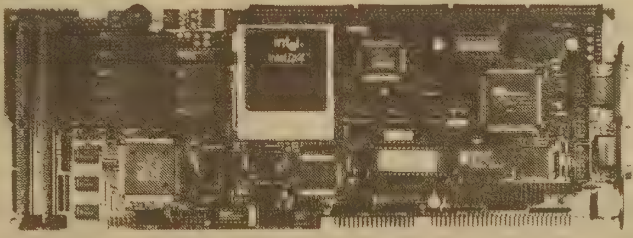

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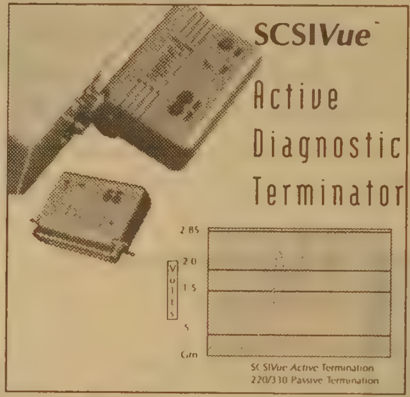

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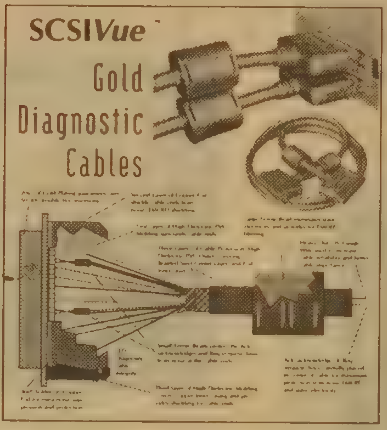

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BMUG UPCOMING EVENTS:

March 9	CharisMac *CD AutoCache (CD-ROM accelerator)*; RadioMail *RadioMail (wireless messaging system)*. **Meeting held in 22 Warren Hall.**
March 16	Marc Cantor *Meet MediaBand (groovy interactive CD-ROM)*; Adobe *New products.*
March 20	BMUG South at 1922 The Alameda, United Way Office in San Jose. Bit Jugglers *KidsWorld (cool screensaver construction kit)*; Akimbo Systems *FullWrite 2.0.*
March 23	Fractal Design *Painter 3 (paint program)*; FutureWave Software *SmartSketch (new graphics program).*
March 25	BMUG MacFest at Pauley Ballroom on U.C. campus. Raffles, exhibits, speakers, and fun! 10:00 am to 6:00 pm.
March 27	BMUG West at Exploratorium Science museum in San Francisco. Brøderbund *Printshop Deluxe CD-ROM (graphics)*; Macromedia *Freehand (graphics).*
March 30	SyQuest Technology (storage); Macromedia *Freehand (graphics).* **Meeting held in 22 Warren Hall.**

Please Note:

Unless noted otherwise, BMUG main meetings are held in 2050 Valley Life Sciences Building on the UC campus (near Oxford and University). Call the BMUG Announcement Line at (510)849-9114 for the latest news on meetings, special interest groups (SIGs), and seminars. See you there!

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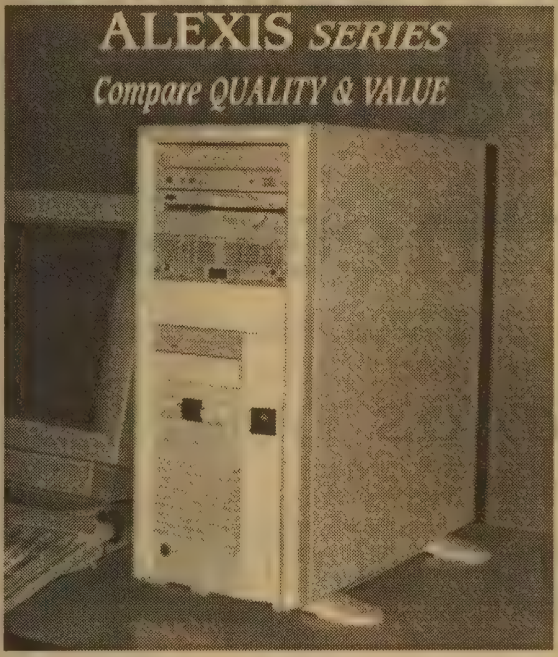

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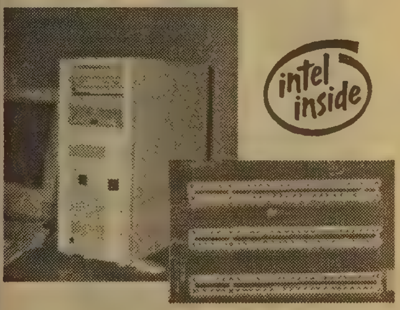

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NCA's Special 9-bay Tower Case
250W UL Power Supply

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TEAC Floppy Drive 1.2 or 1.44
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I/O: 2 serial, 1 Parallel, 1 Game
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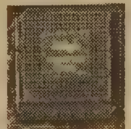

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Providing: Two FIFO Hi Speed
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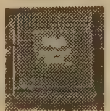
Three PCI Local Bus Slots Providing a high
Bandwidth Data Path
Five ISA Slots (Includes 1 Shared ISA/PCI Slots)
Intel Mercury PCI Chip Set
256K Direct Mapping, write back second level Cache
Intel Pentium 66MHz Processor
Integrated PCI IDE port
Teac 1.44M and 1.2M Floppy Drives
Heat Sink for CPU
Mitsumi High Quality Keyboard
0Mb RAM up to 128MB (72Pin Simms)
NCA's Special 9bay Tower Case
250W UL Power Supply



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Three PCI Local Bus Slots Providing a high
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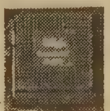
Five ISA Slots (Includes 1 Shared ISA/PCI Slots)
Intel PCI Chip Set
256K Direct Mapping, write back second level Cache
Intel Pentium 90MHz Processor
Integrated PCI IDE port
Teac 1.44M and 1.2M Floppy Drives
Heat Sink for CPU
Mitsumi High Quality Keyboard
0Mb RAM up to 128MB (72Pin Simms)
NCA's Special 9bay Tower Case
250W UL Power Supply



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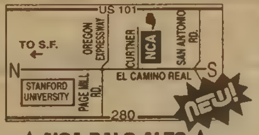

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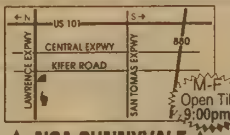

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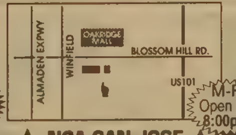

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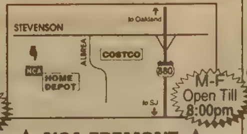

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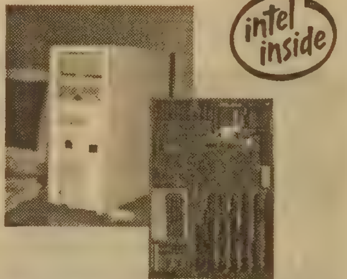

486DX/2-66MHZ /VLB TOWER SYSTEM

- Intel DX2/66 CPU
- 1 ISA 8-Bit/2 VESA Local Bus Slots
- 256K Cache exp. to 512K
- 0MB exp. to 64MB DRAM
- Award BIOS
- Controller Card
- SIS Chip Set
- ZIF Socket
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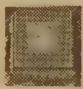

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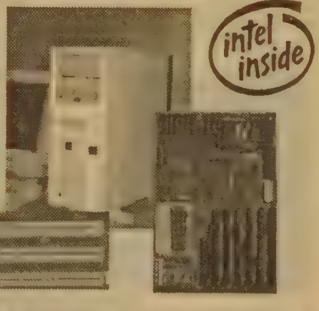

486DX/2-66MHZ /PCI & VLB TOWER SYSTEM

- Intel DX2/66MHz CPU
- 3 PCI Slots
- 4 ISA 16-Bit / 1 ISA 8-Bit
- 2 VESA Local Bus Slots
- 256K Cache
- 0MB exp. to 128MB DRAM
- AMI BIOS
- ALI Chip Set
- ZIF Socket
- Uses 72 Pin SIMMS
- Green PC Energy Star Compliant
- Teac 1.44M or 1.2M Floppy Drives
- Mitsumi High Quality Keyboard
- NCA's Special 9-bay Tower Case
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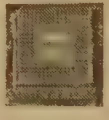

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- Intel Mercury Chip Set
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- Uses 72 Pin SIMMS
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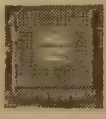

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- AMI Bios
- Opti Chip Set
- ZIF Socket
- Uses 72 Pin SIMMS
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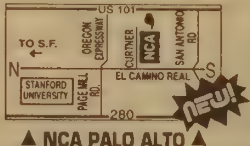

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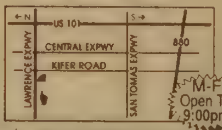

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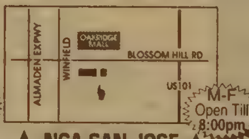

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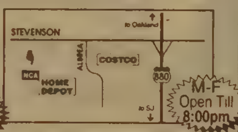

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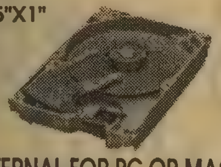

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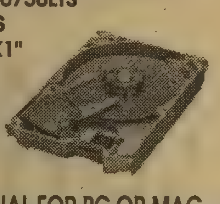

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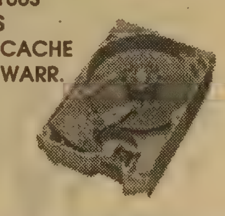

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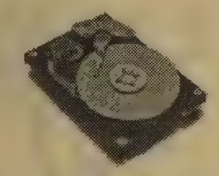

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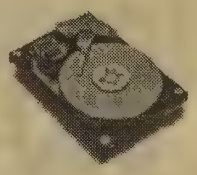

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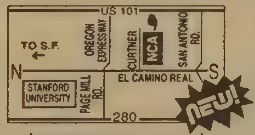

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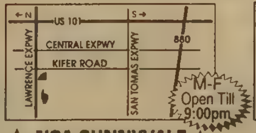

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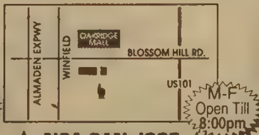

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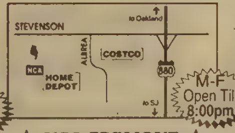

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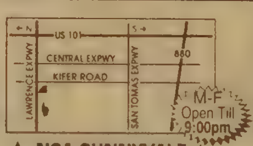

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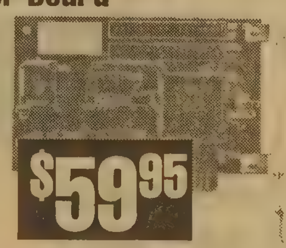

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16- Primary or Secondary IDE Accelerator Board

- 16-Bit ISA compliant with new enhanced IDE & fast ATA standards
- Supports two IDE drives
- Increases IDE hard drive data transfer rates up to 80%!
- Supports new high-capacity IDE hard drives
- Compatible with Windows, Novell NetWare, DOS & OS/2
- Tested and recommended by Micropolis, Fujitsu, Maxtor, Seagate, Western Digital, Quantum and Conner

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GSI Model 21 IDE FAST-ATA

16-Bit IDE, Floppy & QIC-80 Tape Accelerator Board

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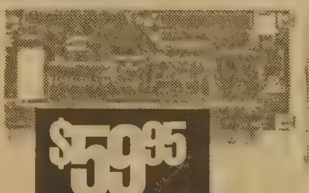
- Increases IDE Data transfer rates up to 80%!
- Supports new high-capcity IDE hard drives
- High speed 1MB/sec. floppy interface(up to 4 floppy drives)
- Doubles the speed of the 250MB or 420MB (QIC-80) tape drives
- Fully supports 2.88MB floppy disk drives
- Compatible with Windows, Novell NetWare, DOS & OS/2



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16-Bit Multi-Port IDE, Floppy, Tape, & I/O Accelerator Board

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- Supports new high-capcity IDE hard drives
- High speed 1MB/sec. floppy interface(up to 4 floppy drives)
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- Compatible with Windows, Novell NetWare, DOS & OS/2

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16-Bit Four-Channel, Eight-IDE Accelerator Board

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- Perfect for Novell mirroring or duplexing
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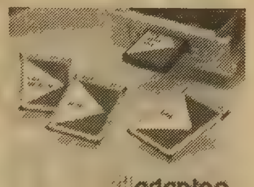

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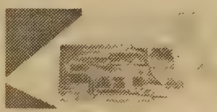
- Advanced SCSI programming interface compliant, disconnect/reconnect, synchronous & asychronous data transfer



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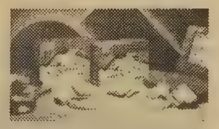

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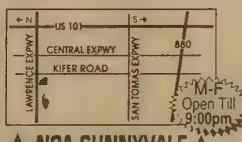

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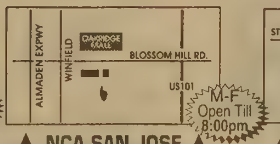

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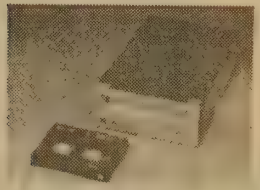

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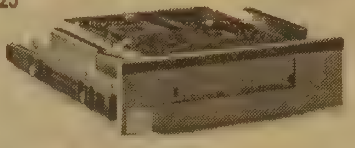

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IDEAL FOR NOTEBOOKS, LAPTOPS 7 DESKTOP COMPUTERS!

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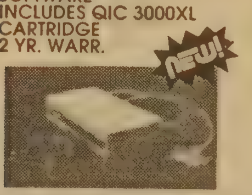

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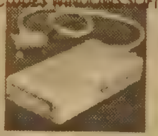

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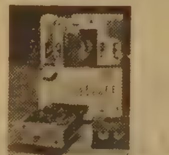

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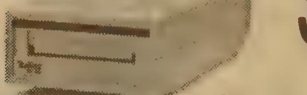

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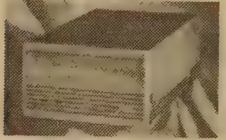

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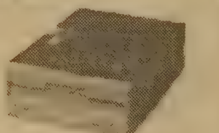

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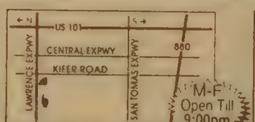

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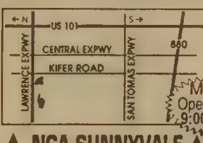

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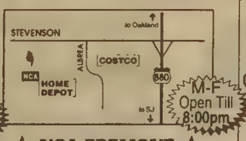

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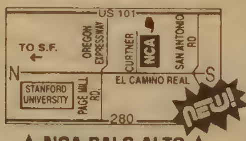

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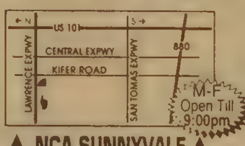

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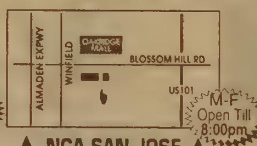

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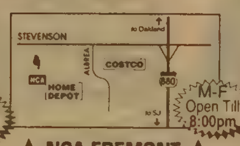

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YAMAHA POWERED MONITOR SPEAKERS

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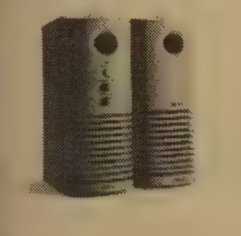
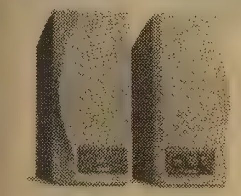


- 3 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 90Hz-20KHz ± 3dB
- Includes AC Adapter

NEW LOWER PRICE!

$59⁹⁵

YST-M10



- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
- 4 Star Rating "MACWorld April 1994"

NEW LOWER PRICE!

$79⁹⁵

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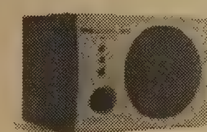

- 25 Watts
- Video Shielded
- Auto On/Off Switching
- Active Servo Technology delivers Life-Like sound
- 35Hz-250KHz ± 10dB

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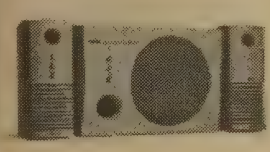

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YST-MSW10 SUBWOOFER:
- 25 Watts
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NEW LOWER PRICE! **$209⁹⁵**

YST-SS1010

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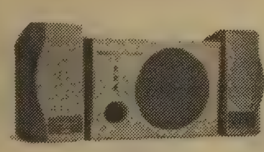

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- 80Hz-20KHz ± 3dB
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- Active Servo Technology delivers Life-Like sound
- 35Hz-250KHz ± 10dB

NEW LOWER PRICE!

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- Crescendo™includes a full-size professional 49-key music keyboard, the Miracle Piano Teaching system™software, Wave/SE™sound editor Stratos™MIDI sequencer software, and Band-In-A-Box™musical accompaniment software.

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PCMCIA Wavetable Synthesizer Sound Card

- V-Synth worlds first software based wavetable synthesizer
- Hurricane Architecture speeds audio throughput
- Two interface connectors • Windows sound card system
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monte Carlo

16-Bit Wave Audio Game Sound Card

- 16-Bit wave audio & CD-ROM interface • Sierra Audio Rack
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- Audiophile quality 18-bit sound • Hurricane™ architecture
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rio *Professional MIDI Synthesizer Module*

- Add Turtle beach quality MIDI sound to your Turtle Beach Tahiti, Sound Blaster 16 or any other WaveBlaster compatible synthesizer connector.
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maui *Wavetable Synthesizer Upgrade*

- Now you can have all of the power of today's hottest new sound cards, plus a few new wrinkles, and keep your old sound card around for games!
- Ability to add new instruments via our SampleStore™ sample RAM. Maui is definitely the best of both worlds!

$137⁹⁵

monterey *Multimedia Sound Card*

Digital Audio, Stereo Mixer, MIDI Synthesizer, Digital Signal Processor, Audio Performance, MIDI Interface (Sample Store)

$319⁹⁵

Karaoke Software $29.⁹⁵
TURTLE TOOLS $39.⁹⁵
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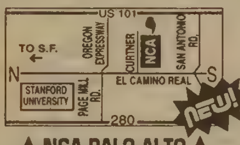

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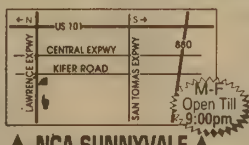

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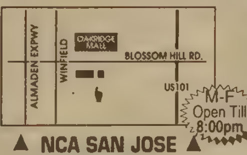

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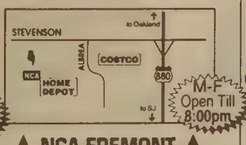

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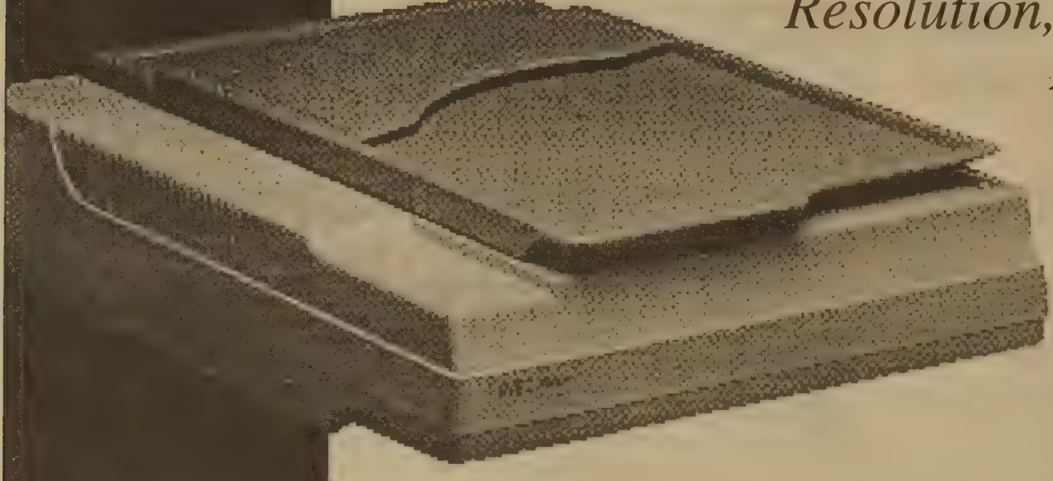
High-Quality Scanning!
Scanning with Spectacular Color, Crisp Resolution, PinPoint Accuracy, and an Affordable Price



AVÉC *Colour* **2400**

ColdScan?

ColdScan is a revolutionary new concept in scanning technology that allows the avéc and Relisys' optical system to be completely enclosed. The result...

- Dust-Free & particles sealed out... for crisp razor-sharp scans
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NEW LOWER PRICE!

AVÉC Colour 2400

- Flatbed desktop, 3-Pass scanner
- High Resolution up to 2400 dpi (Interpolation)
- 600X300dpi (Optical)
- 16.8 Million Colors & 256 grayscale levels
- New Cold-scan technology
- Maximum Scanning area 8.5" X 14"
- Lamp life expectancy up to 35,000 hours
- SCSI-2 Interface for Windows and Macintosh environments
- Twain compatible
- Optional 50-page Auto Document Feeder (RELI ADF30)
- One-year Warranty and HOT-LINE Technical Support.

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2400DPI
FLATBED COLOR SCANNER
FOR PC or MAC

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Flatbed Color Scanner for PC

- Caere's OmniScan™
- TWAIN Driver
- SCSI Cable & Terminator
- Standard Power Cord

OR

Flatbed Color Scanner for Mac

- Adobe Photoshop™ LE
- Art-Scan professional scanning software
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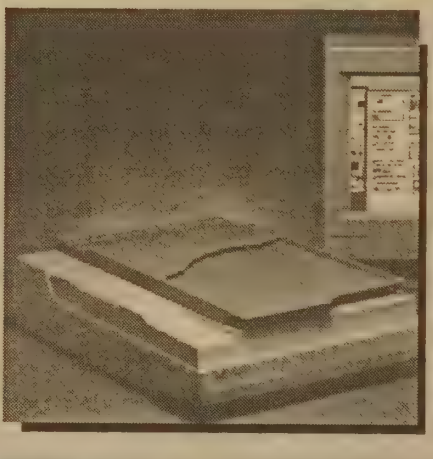
- Standard Power cord

Optional Document Feeder....$399



The Reli 4816(T) One Pass Color Scanner

FREE
TRANSPARENCY ADAPTER INCLUDED!

- One Pass Scanner
- High Resolution up to 4800 dpi by interpolation (True 1600 X 400)
- 16.8 Million Colors & 256 grayscale levels
- Cold-scan technology
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- One-year Warranty and HOT-LINE Technical Support.

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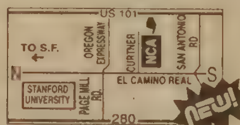

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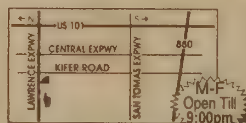

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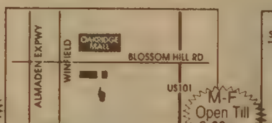

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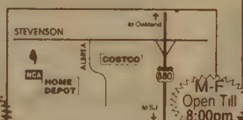

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UC630

Choice Color Scanning Solutions

- Legal size scanning area
- De-screening, Auto-density adjustment, filtering function
- Choice of two exciting software bundles
- TWAIN compliant
- Built in SCSI-II interface w/128K bus caching buffer
- Optional ADF and UTA

PC Software
- Adobe Photoshop LE
- Omni Page Direct OCR
- SCSI int. card & cable
- Standard power cord
- Twain Driver

MAC Software
- Adobe Photoshop LE
- Omni Page Direct OCR
- SCSI cable & terminator
- Power cord

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UC-1260

High Resolution Color Scanner

- Legal size scanning area
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- 9600dpi high resolution
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- Ultra View-interpolation software 2400dpi
- Kai's Power Tools
- SCSI cord/cable
- TWAIN

MAC Software
- Adobe Photoshop Full Version
- Ultra View-interpolation software 2400dpi
- Kai's Power Tools
- SCSI cord/cable
- TWAIN

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The New Low-Cost, High Speed, Single-Pass Scanner

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- Optional UTA

PC Software
- Adobe Photoshop
- Omni Page Direct OCR
- Magic Match-color management tech.
- SCSI card/cable
- TWAIN

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- Power cord

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Make any TV into a Large-Screen Presentation Monitor

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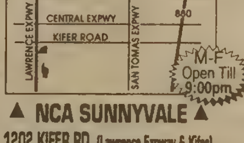

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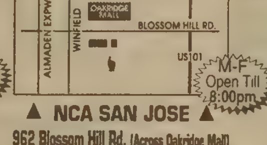

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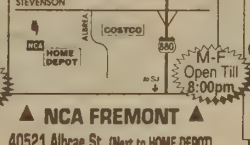

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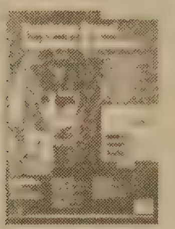
- •Sony, Panasonic, Mitsumi interface



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- •Video scaling provides full-screen video at 30FPS
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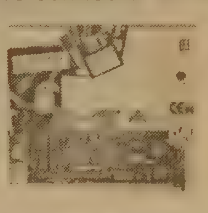
- •30fps video capture- 320x240 @ TV quality
- •Feature connector for MPEG player boards

NOW INCLUDES VIDEO STUDIO II SOFTWARE!



NEW!

$499.95

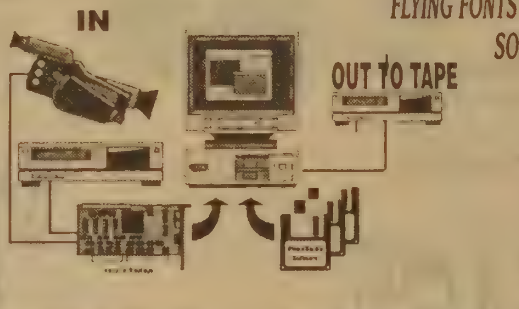
miroVIDEO DC1 tv

Video Digitizing Directly To Your Hard Disk • Overlays, Titles, Special Effects • Super VHS Quality, PAL/NTSC Video Output

Miro's DC1 tv Video Capture Board Delivers Full Screen 640X480 Full Motion 30fps Video Output And Non Linear Audio & Video Editing To The Personal Computer At A Remarkable Price!

State-Of-The-Art Features:	Hardware Highlights:
•Non-linear video editing on any Windows PC	•Supports all video formats
•Only One VCR for recording & playback	•Adjusts video filter
•Instant access to any frame	•on-board Motion JPEG compressor
•Great transition effects	•Digital video encoder
•Digital video back up	•Compatible with all graphics boards
•No generation loss	

MANUFACTURED IN GERMANY!



INCLUDES FLYING FONTS PRO 3-D ANIMATION SOFTWARE!

INCLUDES ADOBE PREMIER SOFTWARE!

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Video D1

VIDEO CAPTURE CARD

Now experience digital video on any Windows PC
Spectacular transition effects, Normally only available to video professionals
Fantastic multimedia impression, Integration of full motion video, titles and pictures adds a new dimension to personal computing
Hours of fun - pictures, clips and tricks combined with creativity lead to a thrilling adventure in motion and colors

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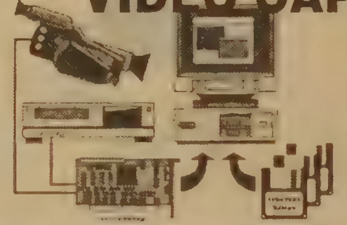

- • Video Capture
- • Video Editor
- • Photo Plus
- • HARDWARE HIGHLIGHTS:
- • Supports all video standards
- • Adjustable video filters
- • miroVIDEO XL compressor
- • 16.7Million colors compatible

SUPER VALUE!

$239.95

VIDEO GRAPHICS CARDS

miroVideo 12PD

- •1MB DRAM (exp. to 2MB) Windows Acceleration
- •Up to 16.7 million colors
- •Up to 73Hz refresh
- •.AVI Video playback scalable to full screen at 30 fps
- •MPEG playback w/ software included
- •32-bit interleaving Alliance 3210 processor
- •Includes MPEG sampler on CD-ROM

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VLB or PCI

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miroCrystal 20sv

Graphics Chip S3 Vision964™ with **2MBytes VRAM**
65,536 Colors in 1024X768 pixels mode
Top Resolution of 1408X1024
100Hz at 1024X768 Pixels

64-BIT!

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65,536 Colors in 1024X768 pixels mode
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100Hz at 1024X768 Pixels

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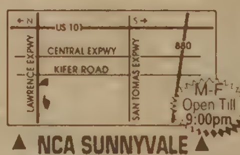

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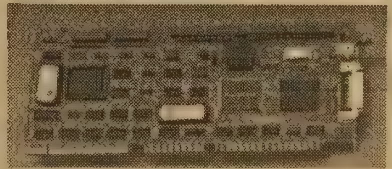
Graphics, Inc.

SPiDER Windows Accelerators
16.7 Million Colors



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NEXT GENERATION 64-BIT GRAPHICS

NEW!

- 32-Bit True Color Palette DAC
- Up to 1600X1200 in 64K Colors
- True Color at 1024X768 N/I
- Energy Saving Green PC
- Virtual Screen, Resolution & Refresh on-the-fly

NEW LOWER PRICE!

2MB VRAM	4MB VRAM
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BLACK WiDOW Plus ISA
The Power of Graphics Co-Processor

- IIT AGX-016: Co-Processor Accelerator
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- 135MHz High Color DAC up to 90Hz (NI)
- Ultra High Resolution 1600X1200
- Virtual Screen, Adjust Screen, Refresh Rate Check

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A Breakthrough in video Technology: Video Caching!

- 128KB Video Cache (exp. 256KB)
- 32-Bit VESA VL-Bus
- Hardware Cursor & Line Drawing, BitBlt
- 1MB of Display memory (exp. 2MB)
- 16 Million Colors
- Up to 1280X1024 in 256 colors
- Refresh Rate up to 75Hz (NI)
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- 64-Bit video memory interface
- 64-Bit BitBlt
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- High Refresh Rate: up to 75Hz (NI)
- Display memory Expandable up to 4MB
- Virtual Screen, Adjust Screen and Refresh Rate Check
- Bus available: VESA VL-Bus and PCI

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$\$164^{95}$	$\$268^{95}$

SPiDER 32VLB
1MB DRAM/2MB DRAM .... $\$85^{95}/\$135^{95}$

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17"FST Monitor

- .26dpi
- 80hz refresh
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- MPR II low radiation
- EnergyStar compliant
- Three Year Warranty

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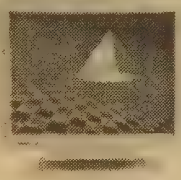
VISIONMASTER™ MF-8221
21"FST Monitor

- .28dpi
- DK Tinted Glass
- 1600X1200 resolution
- 24-85 KHz horizontal scan rate
- Microprocessor control
- Energy Star
- Auto contrast
- Color calibration
- Three Year Warranty



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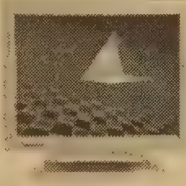
VISIONMASTER™ MF-8621
21"FST Monitor

- .26dpi
- A/R Bonded Panel
- 1600X1200 resolution
- 24-85 KHz horizontal scan rate
- Microprocessor control
- Energy Star
- Auto contrast
- Color calibration
- Three Year Warranty



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- 21" Aperture Grill CRT (Hybrid Trinitron)
- 1600X1200 Resolution
- 72Hz refresh
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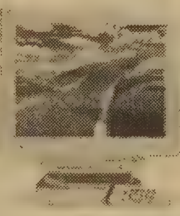
- Microprocessor and Remote Control
- On screen display
- Color Temperature-3 Modes
- Convergence control
- VESA DPMS/Energy Star
- 3 Year Warranty



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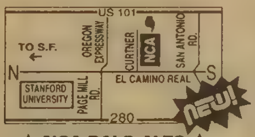

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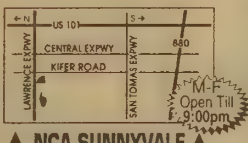

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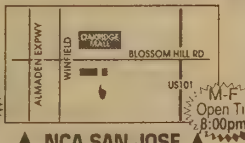

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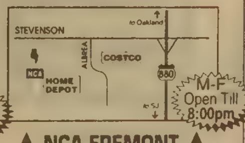

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Versa P75/75MHz, 340MB/8MB RAM
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- 8MB RAM (exp. to 40MB)
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- Built-in MIC/Speakers
- Audio In/Out Jacks
- Active Matrix TFT Color
- Enhanced Parallel Port, Serial, SVGA ports
- Includes MS-DOS, Windows & Much More...
- 3 Yr. Warranty
- PC-490-1542

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NEW!

MultiSpin 2V DELUXE NEW!
Double-speed CD-ROM Reader

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- Includes CD-ROM interface, data cable, audio cable, & NEC Simple Start installation guide & video

INCLUDES Microsoft ENCARTA!

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MultiSpin 3Xp Plus NEW!
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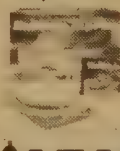

- **500Kb/sec. transfer rate**
- 240ms access time
- 256K Cache
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- PC and MAC compatible
- Multisession Photo CD compatible
- Complete with SCSI cable & i nteractive tutorial CD

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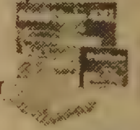
MultiSpin 4Xi
Quad-speed CD-ROM Reader



EXTREMELY FAST!

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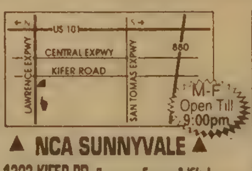

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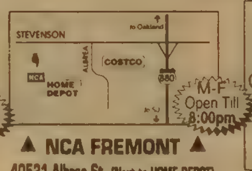

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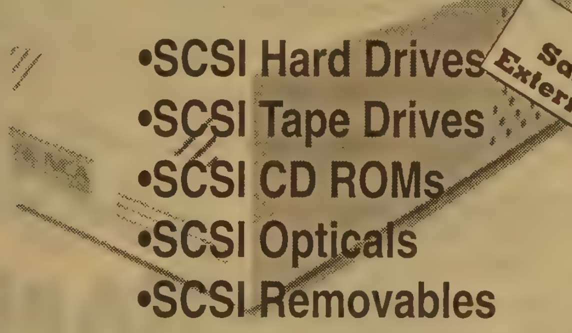

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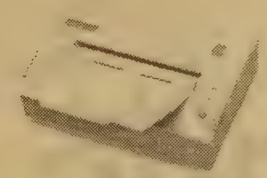

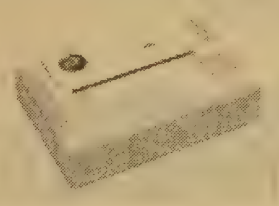

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- TWAIN compatible
- No AC power required
- 24-bit processing
- Access to 16.8 million colors
- Single pass scanning
- Small foot print
- Auto diagnostic installation
- 30 page auto document feed
- Software included:
  - OmniScan SE
  - Image Assistant
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SF12C: Image Reader 1200dpi color full page single-pass 24-bit color scanner with image Pals Go LE imaging editor, Photo Album for image compression& storage, Interpreter 3.5 OCR, TWAIN compliant and INFO Technician for no fault installation.

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- Optical Character Recognition
- TWAIN compatible
- No AC power required
- 24-bit processing
- Access to 16.8 million colors
- Single pass scanning
- Small foot print
- Auto diagnostic installation
- Applications:
  - Desktop Publishing
  - Multimedia
  - Facsimile
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Simply Awesome Features

Who packs 1200 DPI resolution and 16.8 million colors in a Windows scanner with a small footprint? Simple-Info Products! Scan line art, 256 grayscale and true color in a single pass. A built-in-30-page Automatic Document Feed is available.

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A personal information manager on your writs.
Download information from your PC to the Timex Data Link watch. Select information from the Microsoft and Timex Data Link software, then simply
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The Times Data Link watch features:

Appointments-Stores time, date, and message of appointments, and beeps to remind you before each one.
Phone Numbers-Shows name and phone numbers for quick and easy access.
Anniversaries-Reminds the watch owner of an event with a string tied-on-a-finger icon.
To-Do-Lists-Lists tasks in a memo log sorted by priority.
Time Settings-Sets watch time directly from a PC and allows users to keep track of a 2nd time zone.
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TRADITIONAL WATCH FEATURES

- **INDIGLO** night-light with NIGHTMODE illuminates the entire watch display with a uniform bright light in low light conditions.
- Shows hours, minutes and seconds with 12/24 hour format option.
- Water resistant up to 100 meters.
- 3 year battery life.

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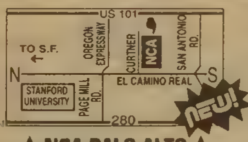

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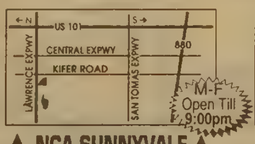

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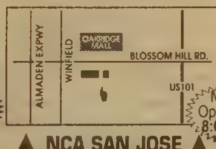

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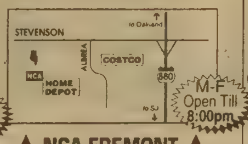

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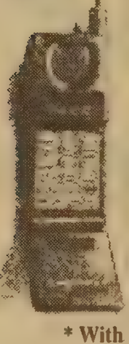
NCA Introduces Our New Wireless Communications Division

MORE

MOTOROLA



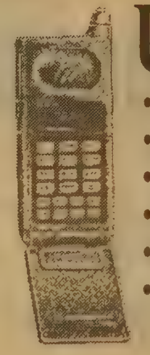
DPC-550

- Lightweight 12.1
- 75 minutes talk time
- 30 number memory
- Automatic redial
- Flip answer and end
- Call timer

$119^{95}*

*** With purchase of starter kit at $89.95 & after $25 instant activation rebate. Activation not required.**

MOTOROLA



Ultra Lite

- 5.9 ounces with battery!
- Optional VibraCall operation
- Battery meter
- Noise cancelling microphone
- One touch emergency dialing
- Signal strength meter

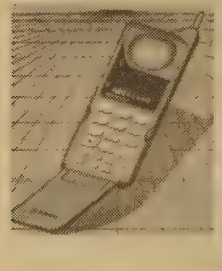
$498^{95}*

*** With purchace of car adapter at $39.95 & after $25 instant activation rebate. Service activation not required.**

MOTOROLA

MICRO-TAC ELITE

The Ultimate Cellular Phone!



- 3.9 ounces!
- Built-in answering machine
- Vibra-call
- Headset jack for hands-free operation
- Internal rapid charger
- Battery/signal meter
- 99 slot memory

$949*

* After $25 instant activation rebate. Service activation not required.

MOTOROLA

CLOSEOUT!
WHILE SUPPLIES LAST!

8000

- 120 minute talk time
- 19 hour stand-by
- Signal strenght meter
- Battery meter
- Menu mode
- 32 memory locations
- Fax/computer compatible

$85^{95}*

* After $25 instant activation rebate & purchase of car adapter at $39.99. Service activation not required.

MOTOROLA

DPC-950

- Only 8.7 ounces
- 9 Turbo dial locations
- 30 memory locations
- Last number redial
- Battery provides 100 minutes of talk time
- Signal/volume meter

$298*

*** After $25 instant activation rebate. Service activation not required.**

MITUSBISHI

CLOSEOUT!
WHILE SUPPLIES LAST!

3500

- Only 7.9 ounces
- 20 number memory
- 3 year warranty
- Battery level meter
- Signal strength meter
- Any key answer
- Call timer

$99^{95} *

*** After $25 instant activation rebate & purchase of car adapter at $59.99. Service activation not required.**

MOTOROLA ACCESSORIES ARE IN STOCK

MOTOROLA

BRAVO EXPRESS

- Small pocket size
- Musical alert
- Bright colored housings
- 12/24 hour timekeeping
- Automatic pager on/off
- Vibrate
- Message timestamping
- Message slot number
- Memory storage when off
- Front mount display

$88

BRAND NEW!

MOTOROLA

MEMO EXPRESS

- Alpha Numeric
- Small pocket size
- Musical alert
- 12/24 hour timekeeping
- Automatic pager on/off
- Message timestamping
- Message slot number
- Memory storage when off
- Front mount display

$115

BRAND NEW!

MOTOROLA

BRAVO PLUS

- Small pocket size
- Vibrate
- Message timestamping
- Message slot number
- Low battery indicator
- Backlighted display
- Freeze screen

$74

BRAND NEW!

NEC

AirTouch Paging

SPORT PAGER

- Small pocket size
- Vibrate
- Message timestamping
- Clock
- Low battery indicator
- Various alert options
- Duplicate message indicator

$45

BRAND NEW!

Authorized Sales Representative

GTE Mobilnet®

More Than Cellular Phones, Cellular Service.℠

Service activation not required, no dealers or resellers.. All rates & information subject to change w/out notice. Bay area end users only. * Price includes $25 instant activation rebate with new GTE MobileNet activation on selected rate plans. Some restrictions may apply. All rates and information subject to change without notice. California law prevents us from being able to apply our Low Price Guarantee on Cellular Phones.

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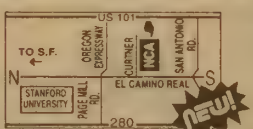

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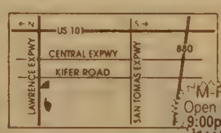

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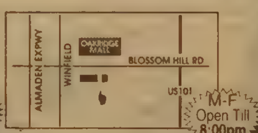

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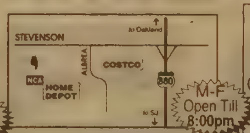

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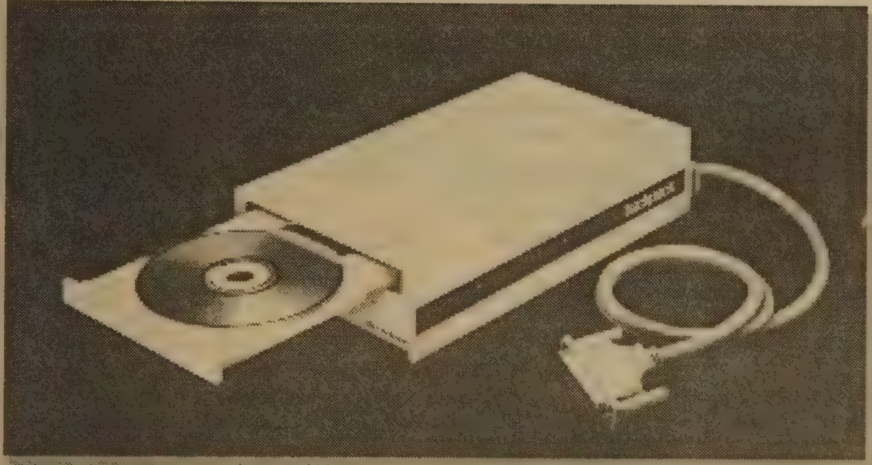
backpack

MORE

backpack
CD-ROM Drive

MicroSolutions

External Parallel Port CD-ROM Drives



DOUBLE-SPEED DRIVE

- 250ms
- 300Kb/Sec
- Double Speed High Performance drive
- Ideal for Notebooks or Laptops
- Supplied Device Drivers
- Multi-Session Photo CD compatible

$299.95

QUAD-SPEED DRIVE

NEW!

- NO SLOT plug-n-play
- Motorized tray
- MultiSession Kodak Photo CD compatible
- Ideal for Notebooks or Desktops
- DOS OS/2 Device Drivers
- Supports new high speed EPP & IEEE 1284 ports

$375.95

backpack
Tape Drive

External Parallel Port Tape Backups

250MB Tape Backup

- QIC 80 uses 2120 tapes
- Speeds up to 9MB/Min.
- Transfer rate of 500KB/sec. to 1Mbit/sec.
- Window and DOS Software Included
- Printer pass through
- 2 Year Warranty

$299.95

700MB Tape Backup

NEW!

- Speeds up to 9MB/Min.
- QIC 3010 format, reads QIC 40 &80 tapes
- Supports high speed EPP & 1284 ports
- Window and DOS Software Included
- Printer pass through
- 2 Year Warranty

INCLUDES A FREE QIC 3000XL TAPE!

$455.95

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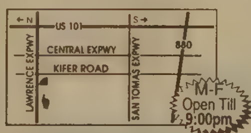

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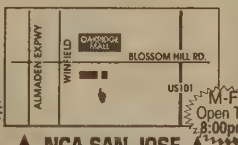

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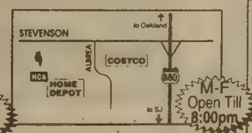

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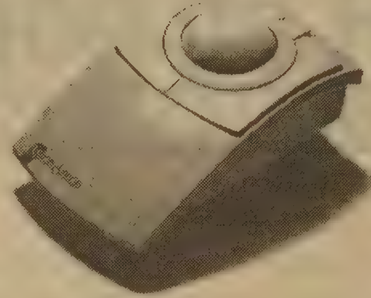
HIGH QUALITY UPGRADES

MORE

MICROSPEED



- 100% Microsoft mouse compatible
- Includes PrecisionPointer™ driver software that automatically adjusts resolution from 50 to 1000 dpi for quick movement and precise control.

PC-TRAC
TRACKBALL

Serial Version	$\$65^{95}$
Bus Version	$\$95^{95}$
PS/2 Mouse Port Comp.	$\$65^{95}$

MicroTRAC
TRACKBALL

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MacTRAC 2.0
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ALL MACS	$\$59^{95}$

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Serial Programmable for WIN	$\$79^{95}$

MICROSPEED MOUSE DELUXE

Serial version with mousepad & Software

$\$29^{95}$

MICROSPEED REPLACEMENT MOUSE

$\$17^{95}$

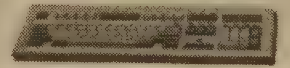
3-Button Serial Mouse (250dpi)

MICROSPEED 105 KEY MAC KEYBOARD

DELUXE MODEL

4-ADB PORTS, POWER PC READY, SPILL-RESISTANT, TACTLE KEY FEEL, 16% SMALLER FOOTPRINT

$\$75^{95}$



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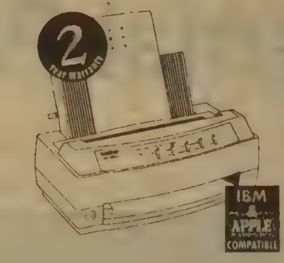
brother®

Get the Straight Paper Path Advantage

HL-400
Desktop Ink Jet Printer

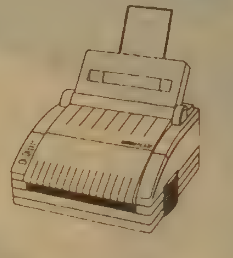
- 360x360
- IBM & Apple compatible
- 12 resident fonts (plus additional TrueType compatible fonts)
- 100 page automatic cut-sheet feeder
- 40% more dots per inch than 300 dpi printers
- Windows ready
- 2 year warranty



$\$274^{95}$

HL-630
Laser Printer

- 300 dpi
- 6 PPM-50% faster than 4 PPM engines
- Straight paper path
  - Reduces annoying jams & curls
  - Prints envelopes & various papers reliably
- 45 fonts
- 512 KB memory with Enhanced Memory Management
- Easy to use, low cost supplies
- 1 year limited warranty



$\$397^{95}$

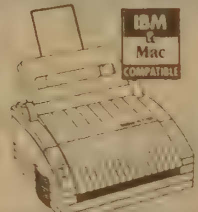
HL-645
Laser Printer

- 300x300 DPI
- 1MB RAM with Enhanced Memory Management
- 6 PPM-50% faster tahn 4 PPM engines
- Staight paper path
  - Reduces annoying jams & curls
  - Prints envelopes & various papers reliably
- Free ClickBook software-$69.95 value
- 1 year limited warranty

$\$469^{95}$

HL-655M
Laser Printer

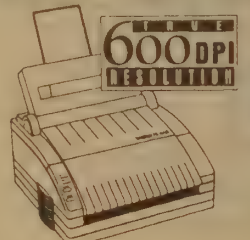
- 300x300 DPI
- Up to 45 fonts
- Apple Mac/IBM compatible
- 2 MB RAM with Enhanced Memory Management
- 6 PPM-50% faster than 4 PPM engines
- Staight Paper Path
  - Reduces annoying jams & curls
  - Prints envelopes & various papers
- Free ClickBook software-$69.95 value



$\$599^{95}$

HL-660
Laser Printer

- 6 PPM Laser Printer-50% faster than 4 PPM engines
- Exclusive Straight Paper Path Technology
- 600 DPI resolution with advanced Photoscale Technology for sharp, crisp, professional output
- 2MB standard memory with Enhanced Memory Management
- Low cost supplies
- Optional BR-Script Level 2 (PostScript Level 2 Language Emulation)



$\$699^{95}$

HL-1260
Laser Printer

- 12 PPM Laser Printer-50% faster than 8 PPM engines
- 1200 DPI Class graphical output
  - 600 DPI Resolution
  - Advanced Photscale Technology
  - High Resolution Control
  - 87 fonts & 11 bar codes
- PCL Level 5e/BR-Script Level 2 (Postscript Level 2 Language Emulation)
- Outstanding paper handling & optional duplexing unit
- NIO Slot for Network connectivity & third-party enhancements
- PCMCIA Type III slot for additional storage

$\$1295^{95}$

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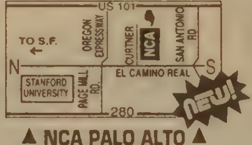

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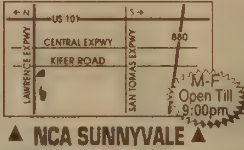

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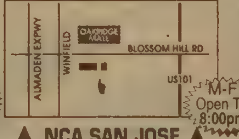

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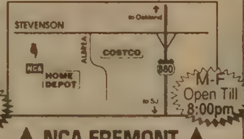

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FAX/MODEMS

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Supra Corporation

SupraFAXModem

14,400 bps Fax, 14,400 bps Data/V.42bis / MNP5
57,600 bps throughput/ Class 1 Fax, Caller ID

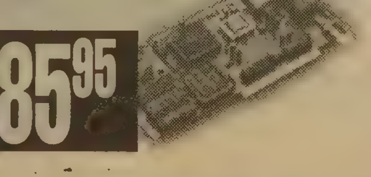
UNLOCK THE WORLD OF DESKTOP COMMUNICATIONS™

EXPRESS

14.4 Plus Internal

14.4 Fax/Modem for PC

Software Included:
COMit™ (Windows)
FaxTalk® (Windows)
CompuServe® Information Manager



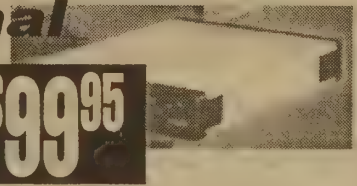
NEW!

$85⁹⁵

14.4 Plus External

14.4 Fax/Modem for PC

Software Included:
COMit™ (DOS & Windows)
WinFax Lite™ (Windows), FaxTalk® (DOS)
Cables & Manuals



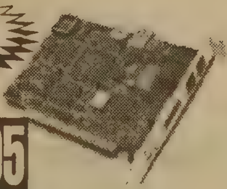
$99⁹⁵

28.8 Internal

V.34

28.8 Data 14.4 Fax for PC

Software Included:
COMit™ (DOS & Windows)
WinFax Lite™ (Windows), FaxTalk® (DOS)
Cables & Manuals



$188⁹⁵

External 28.8 for PC $219⁹⁵

14.4 Ext. MAC

14.4 Fax/Modem for MAC

- Top-Rated Data/Fax Software.
- Easy to Install, Easy to Use.
- Five Year Warranty
- Cables and Manual

$99⁹⁵

28.8 Ext. MAC

V.34

NEW!

The Fastest Modem for the MAC

28.8 Data/14.4FaxModem for MAC

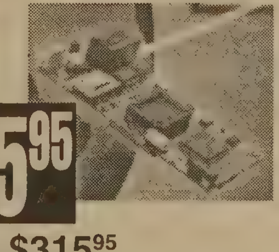
- Software Included:
  Microphone LT, FAXcilitate™
  CompuServe Information Manager™
- Cables and Manual.

$245⁹⁵

14.4PB Int. MAC

14.4 Fax/Modem for PowerBooks

- 14,400bps FAX/DATA
- V.42bis/MNP 5 • 57,600 bps Max Throuput
- Caller ID, SilentAnswer™
- Works in PowerBook Models 100-180
- Software Includes:
  °Microphone™ LT
  °FAXstf™, °Compuserve
  °Information Manger™, °ARA Scripts • Manuals



$195⁹⁵

28.8i PB internal for PowerBooks $315⁹⁵

Prometheus

ProModem 144i for PC with voice

14,400 BPS DATA/FAX MODEM

The same great features are available for PC Windows users! The ProModem internal 14,400 bps fax/data modem features V.42bis data compression to transmit data at throughput speeds approaching 57,600 bps. Using V.42 error correction, data integrity is preserved while transmitting at the highest speed possible. Includes MaxFax, the send/receive fax software from Prometheus Products.

EXTERNAL FOR PC........$109⁹⁵

$89⁹⁵

NEW!

ProModem 144e with Voice External for MAC

14,400 BPS DATA/FAX MODEM

This external 14,400 bps data/fax/voice modem includes the complete version of MaxFax, the innovative software that turns your computer into a telephone answering machine and a send/receive fax machine. Use the ProModem to connect to on-line services, or to answer the phone and automatically receive a fax or record a voice message!

NEW!

$119⁹⁵

76J

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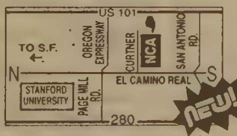

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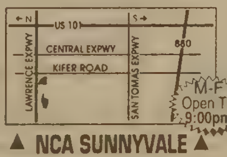

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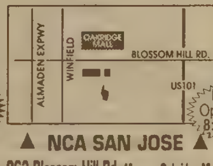

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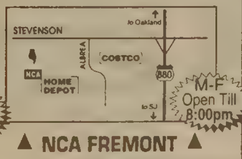

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ACOM

Patriot 4000 Notebook

ACOM PATRIOT 4000 Notebook standard configuration:
9.5" Viewable screen size, 4MB RAM(expandable to 32MB), VESA Local Bus with 1MB VRAM, built-in Sound Card, 1 removable 1.44MB floppy drive, NiMH battery, 2 type II or 1 type III PCMCIA slots, carrying case, AC/DC adaptor and audio drive.

Patriot Mono 4000 w/4MB, NIMH battery, w/o CPU or HD	$1099.95
Patriot 4000 Dual scan color w/4MB, NIMH battery w/o CPU or HD	$1499.95
Patriot 4000 Active color w/4MB, NIMH battery, w/o CPU or HD	$2499.95
Upgrade options:	
4MB RAM card	$195.95
16MB RAM card	$685.95
Docking station	$455.95
NIMH battery	$129.95
AC/DC adaptor	$99.95
Car Adaptor	$70.95
258MB HD	$229.95
340MB HD	$269.95
520MB HD	$429.95
710MB HD	$569.95
810MB HD	$929.95
486DX/33 CPU	CALL
486 DX2/50 CPU	CALL
486 DX2/66 CPU	CALL
486 DX4/100 CPU	CALL

Processor	**Intel SL Enhanced (PGA socket)**	**486SX-25/33MHz 486DX-33MHz 486DX2-50/66MHz**
BIOS	**Phoenix Bios**	
Power Management	**Built-in(APM compliant)**	
On-board Memory	Up to two 4MB or 16MB memory cards	Possible configurations include: 4MB, 8MB, 16MB, 20MB or 32 MB
VGA	32-bit VESA local bus	Windows accelerator 512kb viedo memory, upgradeable to 1MB
Display	Detachable LCD panel	Monochrome Color STN Color TFT
Hard Drive	One detachable 2.5", 19.5mm height	
Floppy Drive	One detachable 3.5", 1.44MB floppy disk drive	
PCMCIA socket	Two Type II or one Type III	
Keyboard	Detachable 86-key keyboard	
Trackball	Built-in 25mm trackball	
Audio(optional)	Digital audio(Microsoft Sound System & Sound Blaster compatible), built-in microphone & speaker	

NCA Computer Products™
Your Computer Upgrade SUPERMARKET™

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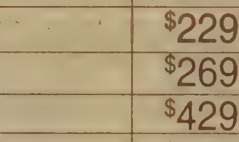

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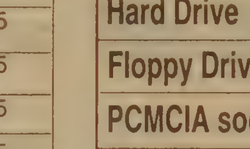

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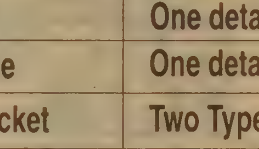

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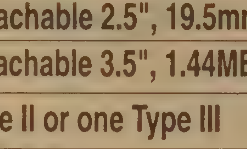

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Product Spotlight

UPDATES

Apple Computer has made available **v1.2 of the Apple Media Kit**. The new version supports QuickTime 2.0 and creates Power Macintosh run-time applications. It is available to registered users of v1.0 for $49, and a demo CD of the Apple Media Kit is $10. Apple Computer, Inc., 20525 Mariani Ave., Cupertino, CA 95014. 1-800-282-2732.

Ashlar has shipped **Velum for Windows v2.7**, the latest version of it's 2-D and 3-D design and drafting software for mechanical engineers, industrial designers, and other precision-oriented designers. The 2-D version has an SRP of $2495 and $2995 for the 3-D version. Ashlar Incorporated, 1290 Oakmead Pkwy., Suite 218, Sunnyvale, CA 94086. (408)746-1800.

Caere Corp. is shipping its newest optical character recognition product for the Macintosh, **OmniPage Direct 2.0**. It uses the latest in neural network design and linguistic capabilities. List price is $99. Caere Corp., 100 Cooper Ct., Los Gatos, CA 95030. (408)395-7000.

Knowledge Revolution is releasing **Working Model 2.0**, the new version of its kinematic/dynamic simulation software for building and anaylzing complex mechanical systems on the PC. Priced under $1500. Knowledge Revolution, 66 Bovet Rd., Suite 200, San Mateo, CA 94402. (415)574-7777.

Miramar released **Personal MACLAN Connect 5.0**, which now allows full peer-to-peer file and print sharing between Windows-based PCs and the Macintosh. Miramar Systems, 121 Gray Ave., Suite 200-B, Santa Barbara, CA 93101. (805)966-2432.

Norman Data Defense Systems has released **Armour v3.45**, its modular system of virus protection that utilizes the paradigm of Smart Behavior Blocking to prevent virus infection. Norman Data Defense Systems, Inc., 3028 Javier Rd., Suite 201, Fairfax, VA 22031. (703)573-8802.

OSC is shipping **DECK II v2.2**, a Power Mac-compatible version of its digital audio tool that makes digital media creation accessible to a much broader audience. OSC, 480 Potrero Ave., San Francisco, CA 94110. (415)252-0367.

Pixar released **Pixar Classic Textures Vol. 2**, its second library of photographic textures available on CD. This collection features clouds, marbles, papers, metals, flowers, and waters among others. The price is $169. Pixar, 1001 W. Cutting, Richmond, CA 94804. (510)236-4000.

Softkey has released **BodyWorks 3.0**, the new version of its interactive multimedia anatomy and physiology software. List price is $69.95. Softkey International, P.O. Box 629000, El Dorado Hills, CA 95762-9983. 1-800-242-5588.

Spalding Software announced **DataImport 4.0**, a Windows version of its popular data translation utility. This version adds new productivity features like on-the-fly multiline unstacking and seven new output formats. The price is $189 and $495 for a five-user LAN. Spalding Software, Inc., 154 Technology Pkwy., Suite 250, Norcross, GA 30092-2911. (404)449-1634.

Synergy announced **v4 of its Modem Assist PLUS** nondedicated modem sharing software. The new version contains a number of enhancements for Windows users. Priced at $899 per network file server or domain with unlimited users and modems; four-port and two-port versions are also available. Synergy Solutions, Inc., 2150 S. Country Club Dr., Suite 1, Mesa, AZ 85210. (602)545-9797.

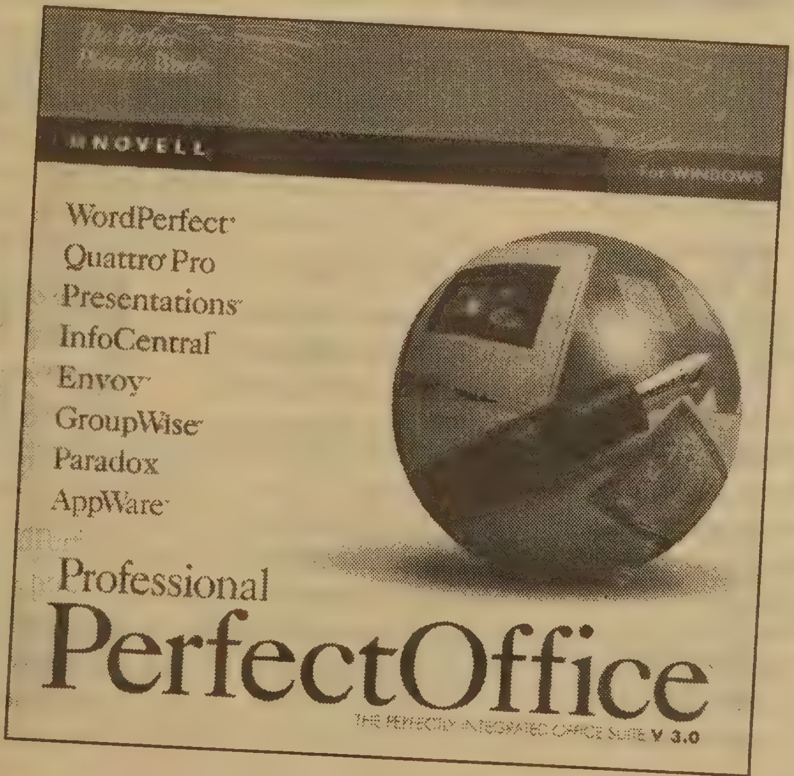
VERSANT ODBMS object database management system for multiuser distributed applications is now **available for OS/2 2.1**. Versant Object Technology Corp., 1380 Willow Rd., Menlo Park, CA 94025. (415)329-7500.

New Products

CD-ROMS

Novell PerfectOffice 3.0

PerfectOffice 3.0, Novell's first desktop applications suite, combines WordPerfect 6.1 (word processor), Quattro Pro 6.0 (spreadsheet), Presentations 3.0 (presentation graphics), InfoCentral 1.1 (personal information manager), Envoy 1.0 (workgroup publishing tools), and a GroupWise 4.1 client license (integrated email, calendaring, and scheduling) in one package. The Professional version includes all of these as well as Borland's Paradox 5.0, a relational database, and Novell AppWare, a fifth-generation visual custom development tool. PerfectOffice offers program integration using PerfectFit technology, task automation with a cross-application scripting language, and network benefits for both end-users and IS managers. In addition, the workgroup publishing tools allow for collaborative computing acrooss networks. (Standard version, $659; Professional version, $859; special introductory upgrade prices of $199 for users of any Novell application and $239 for users of competitive products until March 31, 1995) Novell Applications Group, 1555 N. Technology Way, Orem, UT 84057-2399. 1-800-451-5151.



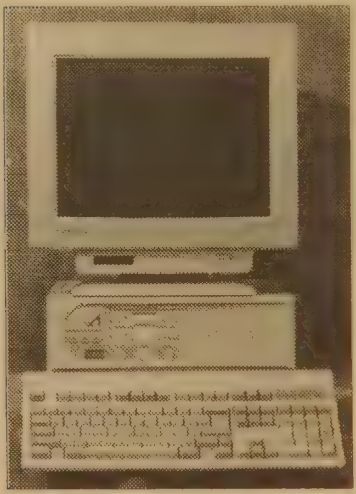
d-Time^{10} CD-ROM Accelerator

d-Time^{10} is a CD-ROM accelerator designed to make a DOS/Windows CD-ROM as fast as a disk drive. It combines system RAM and disk space to create a high-speed CD-ROM that offers performance equivalent to the system's hard disk. On the first access, d-Time^{10} stores data on the disk drive and in system RAM, allowing subsequent reads to experience a high-speed data transfer that is much faster than a 300k/s CD-ROM. Saved data is kept on the disk for future use (even after power down), and up to 255 titles can be cataloged on the disk for daily access as the user changes titles. ($64.95) Ballard Synergy, 10715 Silverdale Way, Silverdale, WA 98383. (206)692-9660.

PC Hardware

Anthurium Protea 166

Anthurium's Protea 166 is a personal workstation that features DEC's 64-bit Alpha AXP RISC processor with FPU. The system runs under Windows NT 3.5 and includes an integrated PCI local bus, a PCI 64-bit graphics accelerator with 2MB of VRAM, 32-bit PCI Ethernet card, a double-speed CD-ROM drive, 540MB SCSI hard drive, and 16MB of RAM expandable to 256MB. The Protea 166 is very fast at graphics- and numeric-intensive applications, and will outperform some midrange UNIX workstations. It is designed to be upgradable. ($4995) Anthurium Technology, Inc., 1-800-724-0210.



Digital's Starion Line

Digital's Starion line of personal computers is aimed at the small office/home office market. They are designed to be easy to set up and use, upgradable, and reliable. All five models—the 200, 300, 400, 500, and 700—include 16-bit stereo sound, speakers, and microphone, and Sound Blaster PRO compatibility; built-in telephone answering machine; MaxFax communications software and a 14.4 fax modem; multimedia demos and tutorials to assist users with business tasks, such as sending a fax and data conferencing; preloaded MS-DOS, Windows for Workgroups, and online software manuals; Intel ProShare software for data conferencing; ClarisWorks; Lotus ScreenCam software for multimedia tutorial creation; CompuServe online information service; for the four CD-ROM models (not the 200), American Business Information's 11 Million Businesses Phone Book; and one-year, on-site warranty service. The Starions are built around 486DX2 (the 200 and 300) and Pentium processors with 8MB of RAM and a minimum 540MB hard drive. The 500 and 700 models include 250MB tape drives, and the 200 and 400 models include monitors. ($1799 and $2399 for the 200 and 400, respectively; available exclusively at Sam's Club. $1699, $2299, and $2799 for the 300, 500, and 700, respectively; available exclusively at CompUSA) Digital Equipment Corp., 146 Main St., Maynard, MA 01754-2571. 1-800-722-9332.

Programming

Blinker 3.1

Blinker is a royalty-free DOS extender, Windows and OS/2 linker, and DOS dynamic overlay linker. It includes a dual mode feature that enables a programmer to create a single program that will automatically run in either real or protected mode, depending on the runtime machine's resources. Blinker 3.1 provides protected mode support for all Microsoft C/C++ and FORTRAN graphics libraries, allows the creation of Windows DLLs, introduces OS/2 support, offers dual mode support with internal or external overlay files, and doubles the link time virtual memory capacity for larger libraries and .EXE files. It is the only product offering incremental linking for protected mode CA-Clipper programs. (available to registered users from Blinkinc's BBS; free to subscribers of the Blinkinc Newsletter and Interim Upgrade Service) Blinkinc, 8001 W. Broad St., Richmond, VA 23294. (804)747-6700, BBS (804)747-7333.

Printers/ Scanners

UMAX BizCard Reader

The BizCard Reader is an ideal business card scanner for executives who frequently travel to networking events where they collect large numbers of business cards. Based on UMAX's processing technology, it allows PC users to work in other applications while it scans continuously in the background. It weighs less than a pound and provides many features to simplify the management of business contacts: it scans and converts multiple cards quickly; scans in any direction, portrait or landscape, without requiring the user to readjust or reinsert the card; and includes its own database manager, allowing users to locate and retrieve contacts quickly and easily. The BizCard Reader scans directly into most contact management software including ACT! and PackRat. ($249) UMAX Technologies, Inc., 3353 Gateway Blvd., Fremont, CA 94538. (510)651-8883.

PaperMaster SE/HomeScan AVEC 140 Bundle

DocuMagix and Relisys have bundled PaperMaster SE (Scanning Edition of PaperMaster) with the HomeScan AVEC 140 scanner to create a complete file organization solution for small offices or departments. The AVEC 140 is a sheet-fed, desktop scanner capable of both scanning and printing documents. Its 10-page automatic document feeder allows for scanning multiple-paged documents easily, and its built-in RS232 serial interface provides plug-and-play capabilities. Once documents are scanned into the computer, PaperMaster files them into personalized "folders" and stores the folders in "drawers." For security, each drawer can be locked with a password. Multiple documents of the same kind are automatically filed in the same folder as similar documents, using the AutoFiling feature. Documents can be moved between folders and folders can be moved between drawers with a simple drag-and-drop operation. In addition, documents can be annotated using "sticky notes," which can be placed anywhere on a page. ($399; $169 for PaperMaster alone) DocuMagix, Inc., 2880 Zanker Rd., Suite 204, San Jose, CA 95134-2122. 1-800-749-3966.

Radius ProofPositive 3.0

ProofPositive 3.0 is a dye-sublimation color printer offering true 24-bit, 300dpi, continuous-tone photorealistic color quality. It supports Adobe's Configurable PostScript Interpreter Level 2 raster image processor running in native mode on Power Mac systems, and comes with SuperSWOP color matching technology to color match ProofPositive prints to industry-standard press inks with no loss of dynamic range. A PipeLine Buffer supports back-

FACTORY DIRECT DEALERS WELCOME

CAC DesignStation™ 486DX2/66 CDFAX730

- **Intel 486DX2/66 CPU**
- 256K Cache
- 3 Slots 32-bit VL Bus
- Green PC--Energy Star
- **8 MB RAM**
- **730 MB Hard Drive, 11 ms**
- 1.44 (3.5") Floppy Drive
- 1.2 (5.25") Floppy Drive
- **SVGA Monitor 14" .28 NI**
- 1MB VL-Bus SVGA Video Card with S3 Graphics Accelerator
- Mini-tower Case
- 101 Keyboard & mouse
- **Double Speed CD-ROM**
- **16 bit Sound Card**
- **Multimedia Speakers**
- **14.4k FAX Modem**
- *MS Dos 6.22, MS Windows 3.1*
- *MS Works 3.0*
- *MS Money 3.0*
- *Compton's Encyclopedia 1995*
- *350 Games*

$1595

CAC DesignStation™ 486DX2/66 CDFAX

- **Intel 486DX2/66 CPU**
- 256K Cache
- 3 Slots 32-bit VL Bus
- Green PC--Energy Star
- **8 MB RAM**
- **420 MB Hard Drive**
- 1.44 (3.5") Floppy Drive
- 1.2 (5.25") Floppy Drive
- **SVGA Monitor 14" .28 NI**
- 1MB VL-Bus SVGA Video Card with S3 Graphics Accelerator
- Mini-tower Case
- 101 Keyboard & mouse
- **Double Speed CD-ROM**
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- **Multimedia Speakers**
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- *MS Dos 6.22, MS Windows 3.1*
- *MS Works 3.0*
- *MS Money 3.0*
- *Compton's Encyclopedia 1995*
- *350 Games*

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CAC DesignStation™ 486DX2/66 CD

- **Intel 486DX2/66 CPU**
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- 3 Slots 32-bit VL Bus
- Green PC--Energy Star
- **8 MB RAM**
- **420 MB Hard Drive**
- 1.44 (3.5") Floppy Drive
- **SVGA Monitor 14" .28 NI**
- 1MB VL-Bus SVGA Video Card with S3 Graphics Accelerator
- Mini-tower Case
- 101 Keyboard & mouse
- **Double Speed CD-ROM**
- **16 bit Sound Card**
- **Multimedia Speakers**
- *MS Dos 6.22, MS Windows 3.11*

$1395

CAC DesignStation™ 486DX2/66

- **Intel 486DX2/66 CPU**
- 256K Cache
- 3 Slots 32-bit VL Bus
- Green PC--Energy Star
- **8 MB RAM**
- **420 MB Hard Drive**
- 1.44 (3.5") Floppy Drive
- **SVGA Monitor 14" .28 NI**
- 1MB VL-Bus SVGA Video Card with S3 Graphics Accelerator
- Mini-tower Case
- 101 Keyboard & mouse
- *MS Dos 6.22, MS Windows 3.11*

$1195

CAC DesignStation™ P5/90 CDFAX

- **Intel PentiumCPU**
- 512K Cache
- **16 MB RAM**
- **1GB Hard Drive 9ms**
- **Removable Hard drive**
- 1.44 (3.5") Floppy Drive
- **SVGA Monitor 15" .28 NI**
- 2MB PCI SVGA Video Card with S3 Graphics Accelerator
- Mini-tower Case
- 101 Keyboard & mouse
- **Double Speed CD-ROM**
- **16 bit Sound Card**
- **Multimedia Speakers**
- **14.4K FAX Modem**
- *MS Dos 6.22 , MS Windows 3.11*

$ 2845

CAC DesignStation™ P5/90

- **Intel CPU**
- 256 K Cache
- **8 MB RAM**
- **730 MB Hard Drive 11ms**
- 1.44 (3.5") Floppy Drive
- **SVGA Monitor 14" .28 NI**
- 1MB PCI SVGA Video Card with S3 Graphics Accelerator
- Mini-tower Case
- 101 Keyboard & mouse
- *MS Dos 6.22, MS Windows 3.11*
- CD ROM/Sound Card $200 extra

$ 1895

CAC DesignStation™ 486SX/50 CDFAX

- **4 MB RAM**
- **420 MB Hard Drive**
- 1.44 (3.5") Floppy Drive
- 1.2 (5.25") Floppy Drive
- **SVGA Monitor 14".28 NI**
- 512 KB SVGA Video Card
- Mini-tower Case
- 101 Keyboard & mouse
- Double Speed CD-ROM
- 16 bit Sound Card
- Multimedia Speakers
- 14.4K FAX Modem
- *MS Dos 6.22, MS Windows 3.1*
- *MS Works 3.0*
- *MS Money 3.0*
- *Compton's Encyclopedia 1995*
- *350 games*

$1195

CAC DesignStation™ 486SX/50

- **4 MB RAM**
- **120 MB Hard Drive**
- 1.44 (3.5") Floppy Drive
- **SVGA Monitor 14".28 NI**
- 512 KB SVGA Video Card
- Mini-tower Case
- 101 Keyboard & mouse
- *MS Dos 6.22, MS Windows 3.11*
- CD ROM, Sound Card $200 extra

$795

CAC Multi-Media Pack 1

- **Double Speed CD ROM**
- **16 bit Sound Card**
- **Multi-Media speakers**
- **350 Games**
- **3000+ fonts**
- **35000+ Cliparts**

$195

CAC Multi-Media Pack 2

- **Quad Speed CD ROM**
- **16 bit Sound Card**
- **80 watt Multi-Media speakers**
- **Compton's Encyclopedia**
- **350 Games**
- **3000+ fonts**
- **35000+ Cliparts**

$345

Standard Options: Price with system purchase

15" SVGA .28 NI 1280x1024 Flat, Square Green	**add $100**
17" SVGA .26 NI 1280x1024 Flat Square Green	**add $400**
HP Deskjet 540 printer (With color option)	**add $269**
250 MB Tape drive 3.5"	**add $125**
Mid Tower Case	**add $40**
Full Tower Case	**add $50**
2MB VRAM on S3 Video Card	**add $45**

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Computer Applications Company
3020 Giant Rd., Suite 250
San Pablo CA 94806.
(510) 412-9908.

Mon-Sat: 12-6pm

One year warranty.

Dealer inquiries welcome.
Prices reflect cash discounts.
Prices subject to change without notice.
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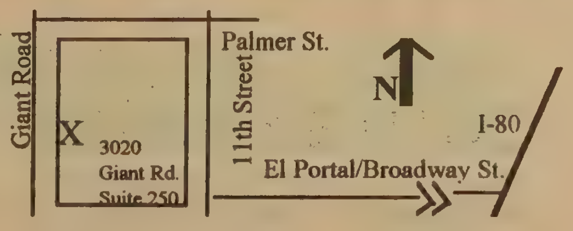
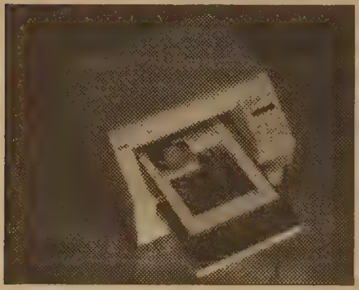




ground printing by downloading document data to a buffer hard disk and managing all communications with the printer engine. The ProofPositive 3.0 printer also includes DCS file support to confirm the accuracy of separations, traps, and overprints before producing film. (full-page printer with digital imaging system is $4999, with PostScript color system, $6499; two-page printer is $11,999 and $13,999; upgrade prices are available) Radius Inc., 215 Moffett Park Dr., Sunnyvale, CA 94089. 1-800-227-2795.

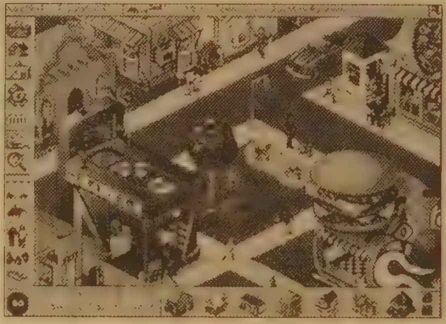
Games

ConcertWare 1.5

ConcertWare is a music composition and arrangement program for beginners to accomplished musicians. It combines notation and sequencing features in an easy-to-use format. Musicians can quickly record music using the computer keyboard or any MIDI instrument. The music is displayed on the screen in standard notation. ConcertWare lets users play back their music and then edit it using intuitive cut-and-paste and point-and-click tools; it can then be printed as professional-quality sheet music in a complete score or individual parts. ConcertWare comes with a "Making Music" CD-ROM that features an interactive tour and tutorial, and intro to MIDI, and "How I Wrote My Fifth Symphony With ConcertWare" by Beethoven. ($159 for Macintosh and Windows versions) Jump! Software, Inc., 201 San Antonio Cir., Suite 172, Mountain View, CA 94040. (415)917-7460.

SimTown

Designed for children aged nine to twelve, SimTown for Macintosh CD-ROM encourages players to learn through exploration, building creations on the computer that reflect their individual personalities. It lets children design, build, and manage their own neighborhood, complete with people, pets, various types of houses, streets, parks, stores, public buildings, pizza parlors, and video arcades. Starting with bare land, children can construct a town with ready-made houses; give Sims places to work; add city services; and plan roads, bicycle paths, and ponds; as well as plant trees, flowers, and grass. A DOS version will be released later this year. ($44.95) Maxis Corp., 2 Theatre Sq., Orinda, CA 94563-3346. 1-800-526-2947.



Reviews

Book Reviews

Taming Your Personal Finances With Quicken 4 For Windows

Author: Sharon Crawford
Published By: Sybex
List Price: $16.99
Reviewed By: David A. Simon, CPA

Quicken is by far the most popular personal accounting package on the market. Unfortunately, many users never fully explore its range of capabilities or customize it to their individual needs. Sharon Crawford's new book, *Taming Your Personal Finances With Quicken 4 for Windows* is thus intended not only for new Quicken users, but veterans as well.

For the beginner, this book provides straightforward advice on how best to use the program without sounding like an extension of Intuit's marketing department. For making recurring payments, for example, Crawford advises, "If you're using Quickfill, there's no point in messing with Memorized Transactions." When deciding whether or not to pay your bills by modem, she warns, "Despite its name, CheckFree is not free nor does it make you free from checks."

For experienced Quicken users, the book provides extensive treatment of budgeting techniques and different ways to manage credit card transactions. If you trade securities or mutual funds, it covers program features dealing with less frequently encountered transactions.

The book is light and fun, reading as if the author is sitting across your kitchen table and coaching you. The layout and graphics make it especially palatable. Philosophical tidbits in the field of household finance are included at no extra charge: Here's the shocking news—the only difference between shampoo for oily hair and shampoo for dry hair is the amount of water in the formula.

This well-crafted guide, complete with a side order of good-humored financial self-improvement tips, takes the user down a smooth path to Quicken mastery. (Sybex, Inc., 2021 Challenger Dr., Alameda, CA 94501. 1-800-227-2346)

The Multimedia Home Companion—1995 Buyer's Guide

Edited By: Rebecca Buffum Taylor
Published By: Warner Books
List Price: $21.99
Reviewed By: Pamela Mason

The Multimedia Home Companion gives an easy-to-understand overview of multimedia technology. It offers help with choosing the best platform and system for your specific needs, along with many reviews of edutainment, games, reference, how-to, and children's titles. The reviews cover platforms ranging from the PC and Mac to 3DO, CD-I, and Sega. Helpful topics include troubleshooting problems with your CD-ROM drive, lists of hardware manufacturers, multimedia best-sellers, and a worksheet for buying a multimedia system.

Multimedia developers will find the conversations with the creators of various multimedia titles interesting. They discuss the challenges, rewards, and special problems encountered while creating their CD-ROMs. Jim Ludke, creator of *The Residents Freak Show,* talks about a trick he uses: "To get a full-screen look to the animation, we created a background, and then animated the foreground action against it. When characters move across the screen they are actually in a small traveling movie that is trimmed as closely as

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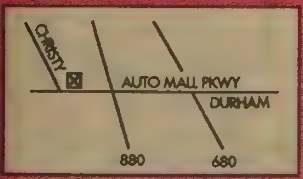

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possible to the characters' outlines. That way we were able to limit the number of pixels required per frame to acheive faster animation."

The Multimedia Home Companion is a thorough reference with full-color screen shots and succinct reviews of hundreds of titles. It's great for browsing and surveying the CD-ROM marketplace. In keeping with the Warner Books tradition its style and design are visually appealing, user-friendly, and well organized. Though geared to the retail consumer, it has valuable information for anyone who wants to learn more about multimedia. (Warner Books, Time-Life Bldg., 1271 Ave. of the Americas, New York, NY 10020. 212/522-7974)

CD-ROM Review

Light-ROM Volume 1

Distributed By: Amiga Library Services
List Price: $39.95
Reviewed By: Douglas J. Nakakihara

Although geared toward LightWave 3D users, Light-ROM includes something for everyone. Primarily, this ISO 9660 Level 1 CD is a resource of LightWave scenes and objects, with a few Videoscape and Sculpt objects thrown in for good measure. With very few exceptions, all of the objects include the necessary image maps.

There are also beautiful color texture maps and grayscale bumpmaps. These would be great for object surfaces, but also for video/presentation backgrounds. A large selection of images (JPEG, IFF, and TARGA formats) for that particular use is included as well.

Helpful text files abound throughout. There are also "index" subdirectories which contain thumbnail images of the LightWave objects and scenes in HAM8, 16-color Hi-res, and Targa formats.

Although there are only a few ARexx scripts included—some of which need to be edited—the ones written by Earl C. Terwilliger are great. The script that copies all of the objects and images from a scene file to a single directory is particularly useful. Rounding out the CD are Imagine objects, DEM files, Fred Fish disks, informational text files, and some old Toaster wipes and CG fonts. A few objects require prior permission before commercial use, however.

The author, Michael Meshew, indicates the Light-ROM series will be updated at least twice a year. Let's hope so. This is a well-thought-out, first-class collection of objects and images, which any serious Amiga or LightWave user will find useful. (Amiga Library Services, 610 N. Alma School Rd., Suite 18, Chandler, AZ 85224-3687. 602/917-0917)

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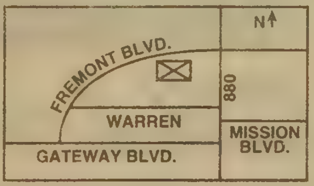

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GOLDEN MICRO COMPUTERS

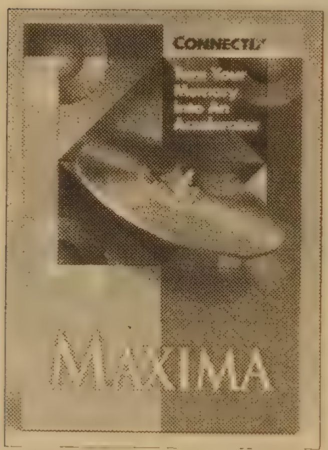
Macintosh Software Review

Maxima 3.0

Published By: Connectix

List Price: $99

Reviewed By: Matthew Leeds



The wizards at Connectix have taken a great RAM disk program, Maxima, and made it even better in this revised version. They have added RAM Doubler technology which, for example, can create an 8MB RAM disk from 4MB of memory. They have also added more options for setting up a RAM disk than most people are even aware exist.

A RAM disk created with Maxima is nonvolatile; as long as you leave the power on, crashes and restarts won't affect the data. If you've created a boot disk from your RAM disk, your Mac will boot from it, even on cold starts. There are options to have your RAM disk saved back to the hard drive periodically, as soon as any change occurs, on demand, and at restarts or shutdowns.

A new installer includes an EasySetup option that makes the creation of a boot RAM disk automatic. You can also use it to select the applications you want to load. Maxima will work on any Mac with a 68030, 68040, or PowerPC. It will work with System 6.0.5 and above, and works best on machines with at least 8MB of RAM.

I use it to create a RAM disk on which I store my Now Contact database. This dramatically speeds up searches. The same method can be used with any database files, or other files requiring speedy access. Powerbook users can create bootable RAM disks to preserve battery power by letting their hard drive spin down. Programmers can compile from a RAM disk without having to reload each time their application crashes. This is a very cool product, and it's highly recommended. (Connectix, Inc., 2600 Campus Dr., San Mateo, CA 94403. 1-800-950-5880)

SimFarm

Published By: Maxis

For: Macintosh, System 7.0 required

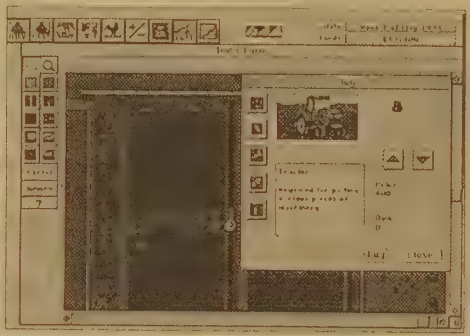
List Price: $39.95

Reviewed By: Karl Fischer

Live vicariously! Who cares what's going on in the world outside, as long as you have the latest SimProduct to live out your existence with!

Made by the same people who built the ever-popular SimCity, SimFarm allows players to enjoy a clean country lifestyle, grow crops, drive tractors, plow fields—from the comfort of your home.

For what it is, SimFarm is extremely well done.



The programming is maddeningly thorough, graced with excellent graphics, animation, and endless options for the video-farming populace. Unfortunately, the subject matter isn't as thrilling.

Players monitor food crop production of any of the twenty four different kinds. They grow. And you watch. It takes a long time. You may also purchase a plow, if you wish.

SimFarm, like SimCity, SimEarth, and other SimProducts, allows users to interact with a computer-simulated environment by manipulating a broad spectrum of variable conditions. In this case, the environment is a patch of dirt on which players must build a farm. Success (good harvests and greater buying power) depends on how well players cultivate and prepare for seasonal changes and other environmental happenings. The game requires good judgement, from picking which crops to grow, when to plant, and what equipment you buy. Rainfall, geography, climate, natural disasters, and many other variables can be set or changed at any time.

Unfortunately, the rigors of wheat production may bore gamers weaned on arcade-style action or conflict-oriented scenarios (in other words: SimFarm has no plot). It really is like planning out a fall harvest. (Maxis, 2 Theatre Sq., Orinda, CA 94563-3346. 510/254-9700)

Networking Software Review

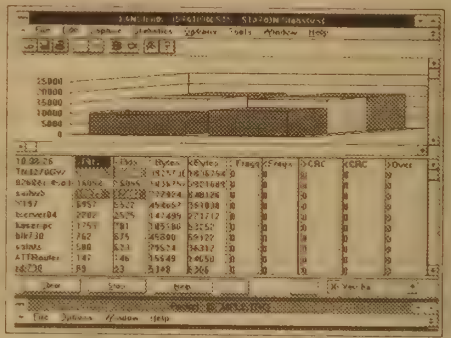
LanSleuth+

Published By: Systems & Synchronous, Inc.

List Price: $690

Reviewed By: Matthew Leeds

The explosive growth of local area networks (LANs) has pushed many individuals into unexpected roles as network administrators. While the basics of networking are fairly simple, once you get beyond the basics there is a very steep learning curve. One particularly slippery area is that of troubleshooting network problems. One of the most useful tools for solving many kinds of network problems is the protocol analyzer.



LanSleuth+ is a Windows-based software protocol analyzer with support for both Ethernet and Token Ring LANs. It can decode SNA, TCP/IP, NCP, IPX/SPX, and AppleTalk protocols. It supports many standard network interface cards and can use packet drivers or ODI drivers. It has most of the usual features of a protocol analyzer including filters, triggers and alarms, time stamping of packets, a ping utility, and some real-time statistics.

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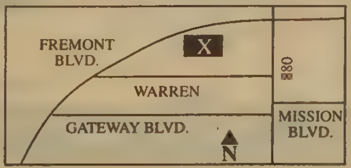

I had some initial problems getting LanSleuth+ configured successfully on the two systems I tested it on. One was a standard 486, and a short call to tech support supplied me with the solution. The other machine was a 386 laptop with a nonstandard Ethernet interface. I eventually was able to get it working correctly, but this required several calls to the manufacturer of the laptop to get a new network driver. LanSleuth+ also uses an annoying theft protection process that requires the use of a numeric key entered when you install the program.

LanSleuth+ has some useful features such as a fairly detailed online help system with some detail that might assist the beginner, but this is clearly not a package for someone with no experience in protocol analysis. There is no real tutorial material in the manual, and no guidance at all as to how to actually use the product.

The interface is reasonably easy to use, but more than a little cluttered. You'll want to be running in 1024 x 768 or higher resolution to have the space for all the windows you'll need open. I did like the support for both Token Ring and Ethernet networks. Should you need only Ethernet support, there is a less expensive version, and another even lower-cost version with some features removed. All in all, I found LanSleuth+ a capable if somewhat cluttered product. (Systems & Synchronous, Inc., 900 E. Diehl Rd., Suite 110, Naperville, IL 60563. 708/505-3900)

PC Software Reviews

MIDI Renderer v1.3a

Manufactured By: DiAcoustics

For: MS-DOS 3.1 and higher, Windows 3.0 and higher, OS/2 2.0; CD-ROM drive

List Price: $54

Reviewed By: Mark Will

If you enjoy music, have a sound card and a fairly large hard disk, or are a professional musician wanting to convert keyboard music to CD-quality music, this product might be for you. MIDI Renderer, from DiAcoustics, produces WAV files from MIDI files.

The typical, older, and more common sound cards use the Yamaha FM-OPL3 chip to play MIDI files. WAV files, on the other hand, are created when you use a microphone and the Windows 3.1 Sound Recorder, and can be played with the Windows Media Player. While the FM-OPL3 chip is quite limited in the number of notes and instruments it can play simultaneously, the WAV files created by MIDI Renderer allow up to sixty-five thousand simultaneous notes and 128 instruments.

Many newer sound cards use the next generation Yamaha chip, the FM-OPL4, to play MIDI music. These newer cards are also called WAV table synthesis cards because they include real instrument samples in ROM chips. Despite this, the sound of a real WAV file is better than MIDI files played on a WAV table synthesis card.

MIDI Renderer comes packaged with software for three operating systems on the same floppy disks (DOS, OS/2, Windows), a 90-page manual, and a CD-ROM. The CD contains music samples from which the WAV files are generated and some sample music that was produced by rendering MIDI files at 22kHz/16-bit mono. Additional sample WAV files are downloadable from the Internet by going to home page *http://www.Dacoustic.com/~diac* . The installation is straightforward and requires the CD-ROM to be inserted to complete. The interface to MIDI Renderer is very intuitive. You can easily establish a queue of up to sixteen MIDI files by clicking on the files you wish to render. You may then use Windows dialog boxes to override the default rendering parameters.

For testing purposes I rendered a 17K MIDI file with lots of drum sounds at half the normal CD quality (22kHz/16-bit mono). The rendering process took 40 minutes, resulting in a 5MB file that sounded better but was not worth the waiting time and hard disk space (I don't have a real ear for music). I also rendered the same MIDI file at true CD quality (44kHz/16-bit stereo), but had trouble playing the resulting 22MB file. According to DiAcoustics, stereo rendering/playback at 44kHz/16-bit stereo should be reserved for the fastest systems (like a Pentium). Also, unless you have a large Windows swap file you may get some general protection faults. This is in the manual and is not a problem under MS-DOS or OS/2. (DiAcoustics, Inc., 555 Sparkman Dr., Suite 600-F, Huntsville, AL 35816. 205/722-0490)

Procomm Plus For Windows v2

Published By: Datastorm Technologies, Inc.

List Price: $179

Reviewed By: John Cowan

When it comes to new software, I've never been an early adopter. I clung to MS-DOS for years while Windows worked out the kinks—but jumped ship instantly when I realized the full power of multitasking. Revelation struck as I mused about Procomm Plus for Windows, the latest incarnation of Datastorm Technology's popular communication interface. "Suppose," I pondered, "while Procomm is dialing CATS (my perennially tardy Internet service), I tab over to the word processor until it connects."

Bingo!

It works like a charm. No more thumbing through boring computer manuals while the busy signals roll by. Just type away on the old word processor, listen for that connection and tab back to Procomm when you hear it come through.

Very heavenly, I tell you, and v2 of Procomm Plus is a fine program. It provides all the capability you'd expect from a full dress communication interface and it wears its heritage well. Most features familiar from the MS-DOS version are retained, and seem improved when cast in the Windows paradigm. The program is easy to learn, requiring minimal reference to the manual, and it self-configures for most popular modems.

Procomm's human interface is especially comfortable and convenient. For example, if you move the vertical scroll bar button up, the interactive data display blends seamlessly into a history buffer, allowing you to scroll through recently received data. Move it back to the bottom and you are once again in the active display.

Version 2 adds fax capability. You can fax documents directly from Windows word processors simply by invoking Print, or you

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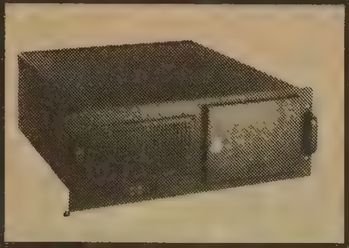

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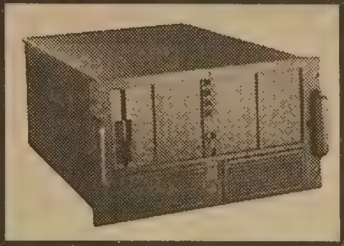

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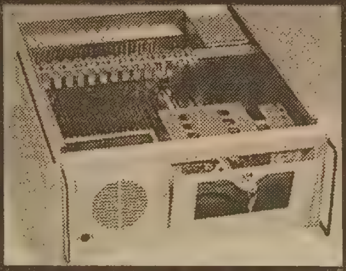

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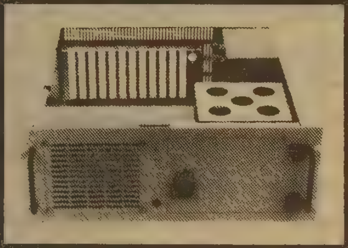

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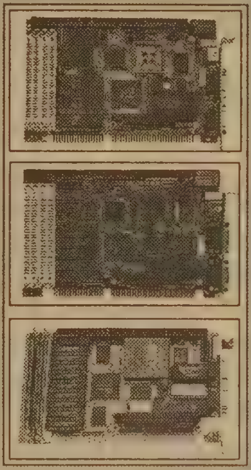

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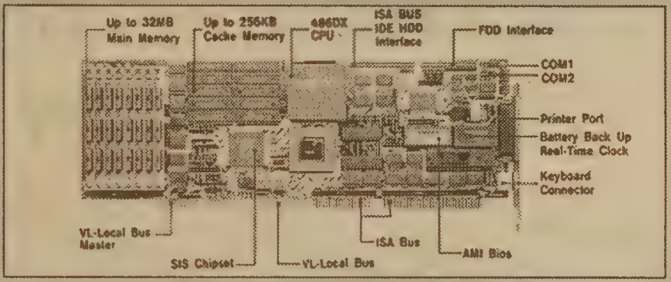

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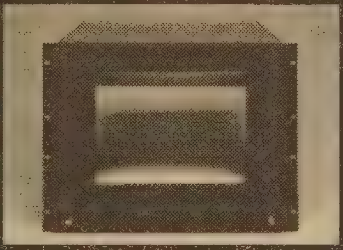

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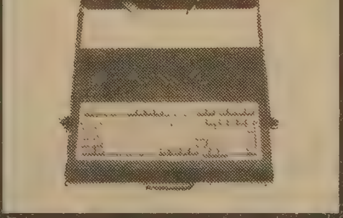

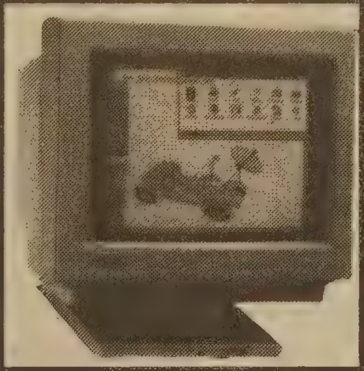

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Telecommuting *continued from page 68*

can type a quick memo from within Procomm and send it as a fax. Procomm also receives faxes reliably, automatically answering the phone and storing the received image so you can view, print, forward, or delete it, as desired.

A comprehensive, convenient, reliable communications interface, Procomm Plus for Windows is well worth a look. (Datastorm Technologies, Inc., PO Box 1471, Columbia, MO 65205. 314/443-3282)

Video Training Tape Review

In The Studio—Working With 3D Studio

Published By: Digimation, Inc.
Produced By: David Avgikos and LaVina Larkey
List Price: Set of six one-hour tapes $395 NTSC; $495 PAL; $79.95 for Video Post Tape
Reviewed By: Pamela Mason

The In the Studio videotapes exemplify the difference that planning, production, and post-production can make in creating effective training videos. There is no wasted time here, no meandering. The tapes are not meant to be watched step-by-step while in front of the computer. Instead, they offer goal-oriented overviews to help you understand how to accomplish specific tasks. Animation projects range from the fields of medicine, architecture, entertainment, and advertising. Each 3D Studio command is explained in terms of what it is best suited for.

In the Studio is a set of six one-hour tapes (2D Shaper, 3D Lofter, 3D Editor, Keyframer, Materials, and Examples tape) presenting clear, concise explanations of difficult topics. For example, on the often confusing subject of mapping coordinates David Avgikos explains, "If maps are like wallpaper, then mapping coordinates can be like telling 3D Studio what size the wall is. If you are going to place a picture map on an object, it needs to know how."

Because the base modules of 3D Studio are functionally still the same between Release 3 and Release 4 these tapes are still perfectly relevant. A collaboration with Michelle Bousquet on Release 4's Inverse Kinematics for Character Animation and a tape focusing on lighting are due out soon.

Filled with the kinds of production tips that only experience can bring, these tapes are the perfect complement to the 3D Studio manual set. Autodesk should issue them with every copy of 3D Studio that they sell. (Digimation, Inc., 315 Saint Anthony St., Luling, LA 70070. 1-800-854-4496)■

> If you can make yourself adhere to reasonable telecommuting work hours, there's a good chance you won't procrastinate as a telecommuter any more than when you're in the main office.

More On Telecommunities

The Institute for the Study of Distributed Work, Oakland, CA, is now actively studying the technology diffusion activities taking place in the United States, and considering how they might impact the quality of life for large numbers of people.

Specifically, Dr. Grantham of the Institute has begun a study to determine what substance there might be behind all the talk about how distance work and distance education, telecommuting, virtual offices and virtual employees, and the National Information Infrastructure are going to change our lives. Perhaps we are merely responding to self-serving media hype fueled by opportunistic corporate and political agendas.

He quickly discovered that there is very little serious research actually taking place. For example, at the last annual meeting of the American Sociological Association only one paper in several hundred was devoted to the impact of technology on community development. Similarly, the average newspaper devotes far more space to covering the latest multimedia animation toy than to discussing the serious uses of technology in education, work, or improving our communities.

But There Is Much To Study

For example, the deployment of a networked information infrastructure is beginning to change the way people form communities of interests, maintain their senses of identity (as individuals and groups), and interact with one another in everyday life.

In the past, I've referred more than once to telecommuters who are gathering themselves in intentional communities in various parts of the world, which Dr. Grantham is now calling "telecommunities" to describe the electronic integration of work, education, and civic action.

In a "telecommunity," citizens interact with one another through technology (as well as by other means), and experience each other more directly than traditional letters or phone calls make possible. This mediated interaction complements existing face-to-face relationships, and fosters the formation of larger and more dense social networks. It creates "virtual communities" where people organize themselves in work, learning, or civic action groups though separated in time and space.

The Institute for the Study of Distributed Work is investigating present-day telecommunity experiences. So far, it is looking at some thirty separate community development efforts in the United States investigating, planning, or conducting pilot "telecommunity" programs. Next month, I'll invite Dr. Grantham to share a little more of what he's learning about our emerging "telecommunities." ■

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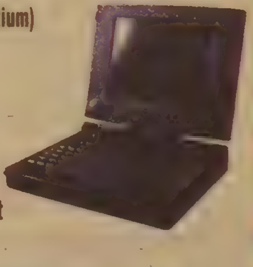

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14" Super VGA 1024•768 .28 NI	224
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Hitachi CM1586 15" 1024•768 .28	388
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4FGe 15" 1024•768 .28	598
Multisync XE 15	528
Multisync XP 15	646
Multisync XE 17	946
Multisync XP 17	1,186
Multisync XE 21	1,896
Multisync XP 21	2,332
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VIEWSONIC	
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Panasonic	
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KX-P3624 (24-Pin) Wide	398
Color Upgrade Kit KX-PCK11	52

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JT-35C Trakker 350MB Ext	316

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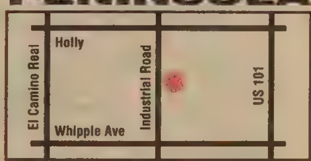

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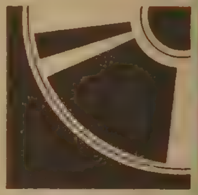

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Microsoft Ergonomic Serial	29
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Safronic 1.2MB/1.44MB	46/36
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Colorado 250MB Tape Backup	149

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For the latest **CD-ROM** and software news & reviews, see our **Product Spotlight** section starting on **page 225**

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  Autodesk 3D Studio
  Release 4 264

Gulch Gossip

by Jonathan E.

Mummy, What's A Macworld?

or Macworld Was A Big Trade Show

Well, at least there was a lot of it—and it was as noisy and tiring as ever. Can you believe that **Mitch Hall Associates**, the producers, don't ask journalists for an email address in the registration program? I bet they don't ask the paying customers either. Mitch, are we on the bus or off the bus—or the info super-whatever-it-is?

On grounds of taste at least, Mr. Hall should be thanked for the absence of the porno room this year. Of course, First Amendment-wise this is probably not a good idea, but last year it was a nasty, sweaty, seething little scene that gave object-orientation a bad name.

As just about everyone must know, Macworld is good for a ludicrous number of parties—and nonparties as ***Mondo 2000***'s **Paul McEnery** uncharacteristically discovered after a dash across the Bay to find, or not find as it turned out, **Timothy Leary** at *Mondo*'s own nonparty. **NEC** and **Radius** presented **Chris Isaak** in the Forum at the Center for the Arts. My, that boy's come a long way from Haight Street's Nightbreak. ***Wired*** had a party at Bimbo's 365 with absolutely ghastly modern fake primitives supplying so-called entertainment. How anyone in the know could be so rash as to think that **Stephen Kent** of **Trance Mission** would bring his didgeridoo to such a dubious and cacophonous presentation I don't know—but one proprietor of several So-Ma ventures hazarded such a guess. To preserve a climate of civility, I'll allow this icon to remain anonymous.

The **Kryptic Korporation**, the faceless corporation behind the faceless **Residents**, hosted a small gathering in its new offices. I didn't see any giant eyeballs walking around but I was once again convinced that relatively small gatherings are much pleasanter than those gigantic affairs in great barns like the Exploratorium.

Immediately ignoring this recent affirmation, I headed for the **Digital Players** party or whatever **HSC** calls its annual bash at the Exploratorium. There was mass hacking of the little winkie lights along with **Naut Humon** prancing around in front of the **Iso-Ambient Orchestra** like a black-clad Mozart on acid. **Cheb i Sabbah** began his DJ set with a vocal sample from **Jai Uttal**, which surprised Jai who didn't expect to hear his voice under such cyber circumstances—but I think he was also rather pleased.

The highlight for me was the **Raster Masters**' magical eye candy in the McBean Theater. **Creon Levit** was in Hawaii celebrating **John Lilly**'s eightieth birthday, but even without him the Raster Masters were utterly spectacular and have made great aesthetic advances over the past year along with some technical tweaking. **Mixmaster Morris** provided excellent sonic ambience to enhance the experience.

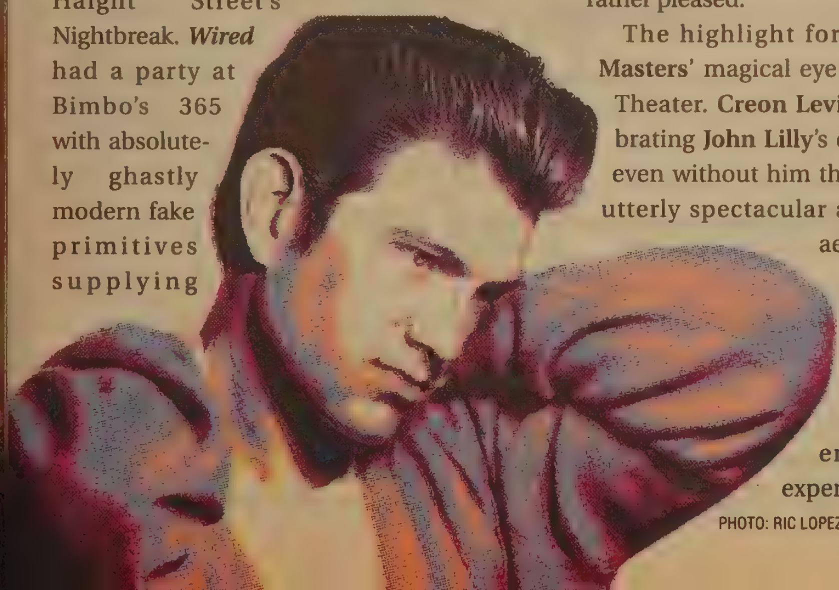

PHOTO: RIC LOPEZ; PHOTOSHOP ENHANCEMENT: RICK COLBY

Mummy, What's A CyberSalon?

FRED AND **SYLVIA**'S **CYBERSALON WEST**, THAT'S **FRED DAVIS** and **Sylvia Paull** with two "L"s as opposed to the single one she has somehow received in the past few columns, was stuffed to the gills with a fifty-fifty mix of high-ranking cybercrats, about half of whom were "looking at putting advertising on the Net," and print journalists.

I was most amused as the assembled multitude one by one outed the writers for big-time publications. ***Wired***'s **Dave Dix** was about to take a verbal lashing, until Sylvia's deft decree to take a number and catch up with him at the end of the evening defused a potentially nasty situation. It turned out that people think *Wired* is arrogant—fancy that! Nobody questioned my self-intro as "the founder of E-Net, a verbal interactive information service." This is a stealth gossip column.

"Where's the information superhighway headed—the promised land or the wasteland?" was the topic for discussion. Later additions were Graceland or Doom, The Mall, Tomorrow Land, Ireland, Fantasy Land, or Never Never Land. Needless to say there was virtually no agreement, but it would be a fair observation that real-world attitudes carry over to the Net wherever it's going. My suggestion to the standard complaints about flaming, which is just to say something nice—I suggest sending anybody being flamed a friendly note—brought the response that I was a typical man, taking up all the bandwidth. Oh excuse me, never mind!

Eventually the discussion got around to how much information people could really deal with and how to find just your own personal good stuff. Of course, the word "agents" soon buzzed around and talk of their use as filters. **Nancie S. Martin** pointed out that "the filters are becoming the message." Her husband, **George S. Burrows**, immediately replied that he had no use for filters on First Amendment grounds—but he's with **Infobahn**, an Internet ad agency, so maybe he has another motive.

Generally it was a surprisingly sensible discussion—but with the range of opinions heard, I don't believe that anyone really knows where it's all going. Ironically enough, the previous evening **Mike Hauser** had described host Fred as the one guy who knew what's going where—but Fred stayed pretty quiet and didn't spill the beans.

GULCH GOSSIP *continued...*

The Multimedia Merry-Go-Round

Asymetrix, Compton's, Rocket Science, and Paramount all scaled back operations or recently laid people off. Meanwhile, new ventures such as **Electric Classifieds** sprout, perhaps not as fast as mushrooms after the rains, but fast enough to convince that multimedia is hydra-headed. However, I'm sure we can confidently expect further shake-outs. ... **Sybase Inc.** has established a **New Media Division** with **Russell Werner** as vice president and general manager of the unit. The new division will provide software for "companies and consumers in order to buy and sell goods and services interactively." Is there any other way? Can I buy goods and services without interaction? ... **Scott Mize**, a cofounder of **Zelos** and once an **Apple** multimedia evangelist, has now begun **Title Connections**, copublishers along with ***DV Magazine*** of ***DV Finance Report***, of which he is also the editor-in-chief. **Peter Karnig** serves in the publisher position and the operation is part of the **IDG** empire. Title Connections' purpose is to provide "advisory and matching services to financiers, content provides, publishers, and developers in the field of CD-ROM, online systems, interactive television, and other digital media." Subscriptions to *DV Finance Report* are a mere $350 a year.

……

Tim Bigoness of ***Morph's*** wishes to assure all that *Morph's* is "alive and kicking butt with a redesign and new format to make us look like a real magazine. Rumors of our demise are utterly untrue and we're not for sale either." But he did ask me if I had any money when I asked the question! **Art-Teco II** is scheduled for June 23rd and 24th at Fort Mason. ... **Cyberlab 7** has moved to a new location, a building wrapped in the tender embrace of a Bay Bridge on-ramp—but by all accounts it's a fabulous space—both for working and for Cyberlab 7's frequent parties. **Dan Mapes** is especially chuffed with the current major project, creating all the visual effects for a major $40 million Paramount movie, *Virtuosity*, starring **Denzel Washington**, set for August release. He says, "It's quite a change from slaving away doing music videos." ... **Brian Raffi** has moved on from **V2 Productions**, which in turn has a new name, **Five Star Entertainment**. **Bryan Weisberg** reports that "the record companies are being overly cautious about jumping into Liner Notes projects. We're now producing a full-length title for **Brøderbund**." ... **Knowledge Adventure Worlds**, **Knowledge Adventure**'s venture into the interactive digital media world with **Steven Spielberg**, has recently moved into the same office building as *Wired*. ... **Homer Flynn** of the **Kryptic Korporation** pointed out in response to a comment in last month's Multimedia 101 column that "**The Residents** do not expect anyone to find joy in their music. If you want joy, The Residents believe you should go to church." Point taken. ... **Scott Rosenberg** of the *Examiner*, an engagingly perceptive writer on multimedia (meaning I agree with much of what he has to say), now has his own Web site "where I'm plying the trade of 'multimedia critic.'" Ironically and somewhat self-effacedly named **KLUDGE**, it's at *http://www.dmz.com/dmz/*.

……

And a little commentary from me: The banner with hypodermic spikes on **Michael Goldberg**'s "Addicted to Noise" WWW page is in bad taste, inappropriate and irresponsible for the times, old fashioned, and symbolically and graphically inaccurate—the truth about addiction is that it's more like a pair of manacles or leg irons and frequently has nothing to do with needles. But what do you expect from an old hack for ***Rolling Stone***, a magazine that hasn't known what's what for twenty years? ... And one sign of the arrival of multimedia has to be **Sumeria**'s billboard on 101 just north of the airport advertising three CD-ROMs. That's a first as far as I know. The pretty fish stamps used to manipulate the "Ocean Life" CD-ROM through the USPS is also worthy of comment in the adventurous and somewhat novel marketing category. ■

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Debate With D'Cückoo

D'Cückoo has moved from the Emeryville studio to a very attractive building in an alley only slightly to the left of the heart of Multimedia Gulch. **Candice Pacheco** disagrees vehemently with my favorable assessment of **Marc Canter**'s *Meet MediaBand* on the grounds that "Undo Me" is "just male stereotyping of women." Sorry, Candice, but I think that "Undo Me" actually presents a situation where women get to make a choice between passive or aggressive behavior and that **Kelley Gabriel**, aka **Connie Champagne**, comes across as a believable, realistic, and strong character.

Welcome To Fictional Life. I Am Spoonman.

Mark Petrakis, that's **Mr. Spoonman** to you, directed a well-received theatrical melt-o-media piece, "Electronic Home Theatre: The Early Years," with the students of **Drake High School's Communications Academy** in Marin. What might happen when we're inundated with five hundred channels of interactive TV was explored using a mix of traditional and digital techniques along with a lot of imagination. The message? Don't forget your body and physical reality.

PC GAME PRICES SLASHED

PC CD-ROM

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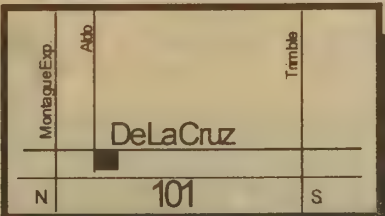

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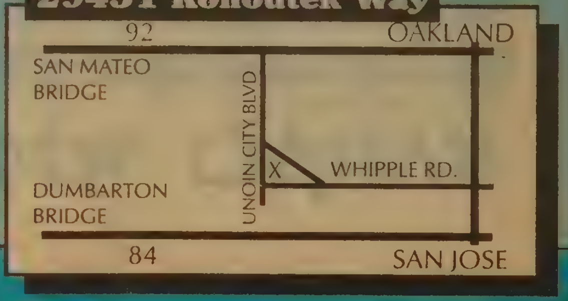

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- Microsoft Ergonomic Mouse

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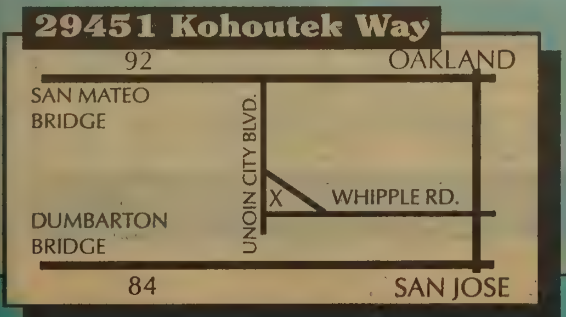

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Optimism Abounds At Video Toaster Expo '94

Avid Media Group, publishers of *Video Toaster User* magazine, hosted the first Video Toaster Expo at the Universal City Hilton & Towers, December 14 and 15. Along with a wide variety of Video Toaster and LightWave 3D training seminars, the show featured an exhibit floor with over fifty third-party developers and other support companies. Over three thousand people attended this mid-week event, indicating a continued strong interest in the Amiga/Video Toaster platform.

FAMOUS FACES

Expo attendees included many recognizable faces. Of course, *VTU* Editor-in-Chief Jim Plant and Managing Editor Doug Carey were present and very busy keeping things going. Other attendees I saw included John Gross and Taylor Kurasaki from Amblin Imaging, Tim Jennison, Donetta Colboch, Lee and Kathy Stranahan, Bob Anderson, Brad Carvey, Alan Hastings, Stuart Ferguson, and a crew of others from NewTek. A very special thanks and congratulations to *VTU*'s Ann Pulley, who was the major force in getting the show to come off as well as it did. (My apologies to the tons of others I'm sure I missed or didn't recognize.)

The day began with a keynote speaker address by NewTek President Tim Jennison. He didn't offer any news about the future of the Amiga; however, he did have some interesting things to say about NewTek. Jennison indicated that the Flyer and LightWave are the company's future. Without being too specific, he indicated that the Flyer depends very little on the host machine (i.e., Amiga). Considering that LightWave is totally platform-independent, the conclusion is obvious. Apparently, NewTek is not as dependent on the Amiga as people might think.

***Video Toaster User* Editor-in-Chief Jim Plant and NewTek marketing director Donetta Colboch**

FLYER FINALLY FLIES

Demo Flyers supposedly started shipping in limited quantity to dealers in November. People who pre-paid to reserve a Flyer will be given the option of getting one with ".9" software. This is a pretty solid version, but not final. The final version will be a free upgrade and will supposedly ship by the time you read this. This will coincide with the 4.0 Toaster (and I'm assuming LightWave 3D) upgrade.

NewTek is being very secretive about what hard drives will work. I've even heard that they may have to sell "Flyer approved" drives themselves. Apparently, hard drives differ in performance, even if they are the same model from the same manufacturer.

BY DOUGLAS J. NAKAKIHARA

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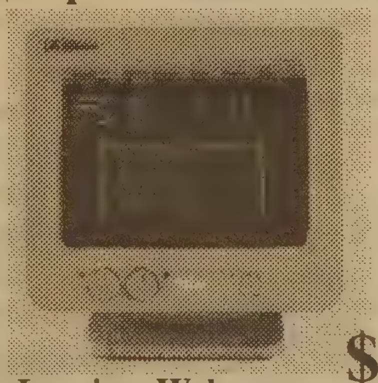

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AMIGA *continued...*

So where's my Flyer review unit? Well, I posed that very question to NewTek marketing director Donetta Colboch. Apparently, the first batch of boards are going out to dealers and people who have actually paid for them. But, I am "on the list" and I should get one at some point.

LIGHTWAVE Q&A

Also on the agenda for the day I attended was a Q&A session with LightWave programmers Alan Hastings and Stuart Ferguson. It's hard to believe that these two regular-looking guys single-handedly wrote the program that is revolutionizing computer graphics.

The big news for the next version of LightWave is "plug-in technology." This allows any developer to tie external programs into LightWave as if they were part of LightWave itself. To make this feature as powerful as possible, they got input from developers already doing plug-ins for programs like PhotoShop and 3D Studio and found out what they liked and what would make things easier. Hastings was very frank in saying that the people doing these types of things would be able to take LightWave farther than he ever could.

If there's good news for Amiga users in this cross-platform movement, it's that LightWave will remain totally compatible across platforms. If you make a scene file or object on an SGI, you can load and render it on your Amiga. Hastings and Ferguson use a single body of code as the basis for all of the versions, which should guarantee compatibility. Plug-ins, unfortunately, will apparently have to be platform-specific.

FAST RENDERING

Several developers showed Windows NT machines equipped with 275MHz DEC Alpha CPUs. Carrera Computers has one based on a DEC motherboard. Aspen and Flight Technologies also had DEC Alpha systems, based on Aspen motherboards. (If you are really daring, you can actually purchase an Aspen motherboard separately and piece together your own system. Personally, I think you'd be better off buying a configured system, considering price, hardware compatibility headaches, and system support.) Prices hovered around $10,000, but that's for a complete system with 32 to 64MB of RAM and a 1GB hard drive.

Currently, with respect to LightWave, all of these DEC Alpha-based computers are only being used as rendering engines for an Amiga running LightWave, via ScreamerNet. However, NewTek will soon be shipping a native Windows NT version of LightWave for the DEC Alpha chip, eliminating the need for an Amiga or ScreamerNet. The great thing about these speed demons is that they can function as regular PCs too! You can run 16-bit Windows programs as well as native DEC Alpha Windows NT programs.

Not to be outdone, DeskStation Technology announced the Raptor III. The big news about this machine is that the CPU is on a daughtercard (*a la* Amiga 4000) so it can be upgraded to MIPs, DEC Alpha, and PowerPC CPUs. This may minimize the fears of obsolescence; however, I have yet to see such a feature work in reality, since so many other things change beside the CPU.

RESOURCES:

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DeskStation Technology	(913)599-1900
Elastic Reality	(608)273-6585
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Feral	(913)831-1791
FOCUS GbR	(212)826-1240
InnoVision Technology	(510)638-0800
Interworks	(909)699-8120
L.A. Video Toaster User Group	(818)552-5025
NewTek, Inc.	1-800-847-6111
NoahJi's	(303)499-1975
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Questar Productions	(303)659-4028
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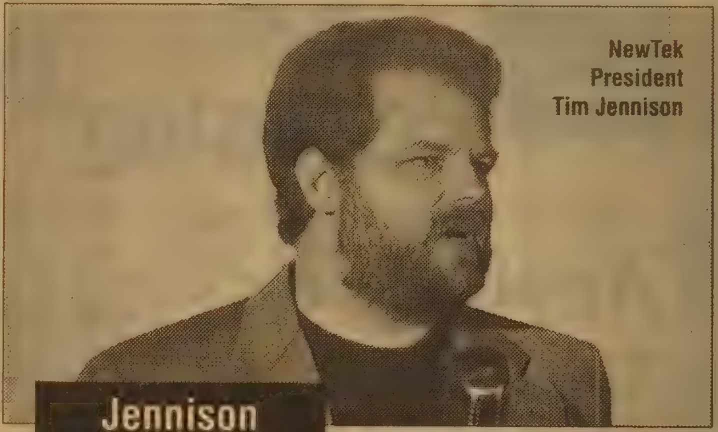
NewTek President Tim Jennison

> **Jennison indicated that the Flyer and LightWave are NewTek's future. Considering that LightWave is totally platform-independent, the conclusion is obvious. Apparently, NewTek is not as dependent on the Amiga as people might think.**

AMIGA IN MOTION

VLab-Motion, distributed by NoahJi's, is a hot JPEG-based nonlinear digital editing system for the Amiga. It has Y/C as well as composite inputs and outputs, plus an optional expansion module for digital component input/output. No TBC is required. The graphical interface allows you to create videos using cut-and-paste and drag-and-drop editing functions. Transitions are all rendered, but they were completed pretty quickly. There are also several "ADPro"-like effects that can be applied to clips of video.

The quality of the output is totally based on the capabilities of your Amiga; therefore a fast SCSI II interface with a very fast hard drive is highly recommended. The more data you can pump through your machine, the better the output. Sixteen-bit audio is provided by the Toccata sound board product, which supposedly will handle 256 layers of audio!

NEW AMIGA?

NoahJi's announced plans to ship an AmigaOS-compatible workstation called DraCo, based on the Motorola 68060. Features include Fast SCSI II, dedicated 32-bit interfaces for Retina BLT and VLab Motion, five Zorro II slots, triple-speed CD-ROM, and 4MB RAM expandable to 128MB. It will reportedly be compatible with all Amiga hardware and software that is not dependent on the Amiga custom chipset, and capable of 2:1 JPEG! It should be available by mid-1995 and cost about the same as a comparably equipped A4000.

GOOD CONNECTIONS

I was also quite impressed with Interworks' T-Net product. This is a distributive rendering software package that runs on the company's Ethernet-based peer-to-peer network, ENLAN-DFS. (It will also support ScreamerNet systems.)

T-Net will administer rendering multiple LightWave 3D scenes among several machines. You can even identify specific frames to render. There are also provisions to adjust resolution, anti-aliasing level, raytracing options, etc. right from the interface.

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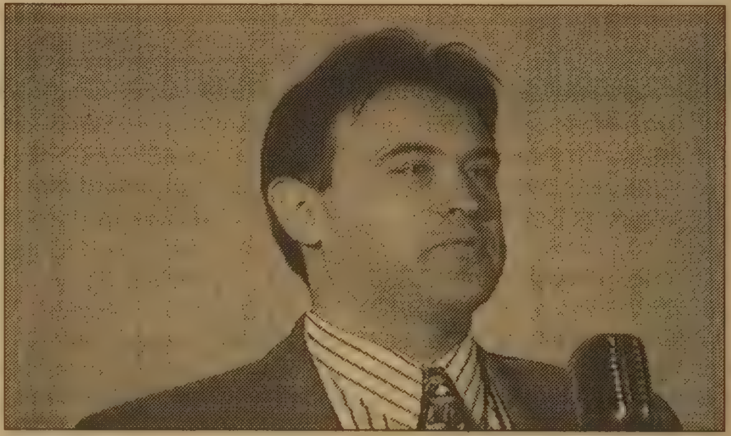

Jim Plant

You get extensive real-time information about rendering activity and statistics. T-Net will even send messages to alphanumeric pagers on rendering status and problems. It is highly configurable as to who it should page in different situations, as well as backup pagers to notify.

T-Net also features the ability to remotely control any of the nodes from a single Amiga. It was surprisingly quick, though not as fast as actually working on the remote machine. Interworks was also showing its PCMCIA Ethernet adapter for the Amiga 600 and 1200. In fact, they had an A1200 as part of their demonstration T-Net rendering farm.

OTHER COOL STUFF

Alpha Paint from Innovision Technology has convinced me that you really can do nice work, painting on a composite monitor. Using the Toaster framestore buffer for the video output, Alpha Paint provides 24-bit real-time paint tools with a powerful 12-bit alpha channel. The product's anti-aliasing, compositing, and auto-drop shadow abilities were very powerful based on the demonstration I saw.

Silent Paw Productions was there touting its PAWS (Personal Amiga Workstation) kit, which allows you to transplant the guts of a 1200, 3000, or 4000 to a portable computer case. The company showed a prototype housed in a clear plastic case and indicated that the product will be available in April 1995. They estimate that a standard two-hour battery will yield about 1.25 hours—remember, the Amiga was meant to be plugged into the wall and was designed to be energy efficient.

ImageFX 2.0 was being shown at the Nova Design booth. This new release looks to be a major upgrade to an already powerful image processing program. One of the missing elements that's often kept me from using ImageFX was the lack of a good batch processing program; this may be a thing of the past with the included AutoFX batch processor. Some of the other new features are thumbnail images for previewing, unlimited buffers and brushes, new region controls, enhanced text handling, better compositing, more effects and image processing tools, new format support, and improved painting capabilities.

A 3-D digitizing system for LightWave called VertiSketch was being demonstrated by Blevins Enterprises. The Model I10, which I saw, has a robotic-like arm with a pointer on the end. The device can triangulate the location of the tip of the pointer in 3-D space. The points appear right in the LightWave Modeler display and the polygons are automatically built.

This seems a somewhat tedious chore, but compared to the same task done freehand, it's quicker and more accurate. All of the

continued on page 320

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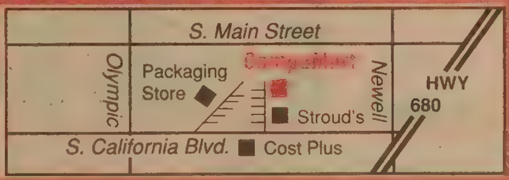

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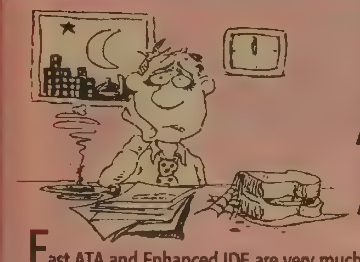

THINGS THAT MAKE YOU GO HMMM!!! #5

Fast ATA and Enhanced IDE are very much the same. The difference between these two interfaces has to do more with marketing than with technology. The Enhanced IDE camp, led by Western Digital, provided an "Enhanced" to the IDE specification for increasing data throughput on newer drive. E-IDE comes in modes 3, 4 and 5 with throughputs of 13.3MB/s, 16.7MB/s and 20MB/sec, respectively. The Fast ATA (13.3MB/s) and Fast ATA-2 (16.6MB/sec) camp, led by Seagate provides drives that are very much like the E-IDE with extra specifications that *claimed* to increase performance. Both E-IDE and Fast ATA will soon support an ample selection of CD-ROM, Tape Drives and other peripherals that are currently available for SCSI Interface only. Note also that E-IDE and Fast ATA are compatible, i.e. an E-IDE controller can run a fast ATA drive and vice versa. Many of our systems are currently using E-IDE and equipped to handle the future mode of E-IDE and ATA interfaces.

Many PC shoppers believe that SCSI interface is faster than IDE, and insist on using SCSI in their new system because their friend (who is an engineer!) recommended SCSI over IDE. Well, that is not always true; in fact the Enhanced IDE and Fast ATA have higher throughput (13.3MB/s than the fast SCSI-2 (10MB/s). However, SCSI interface is usually superior in certain operations that a typical DOS/Windows user will *never* use, such as: access storage above 10GB, run up to 7 disk drives off one controller and run multi-tasking operating systems (Windows NT & UNIX) where bus mastering and DMA are a key; but E-IDE will have these capabilities firmly in place in no time. Keep in mind that Fast & Wide SCSI-2 is still the fastest interface available *today* with peak throughput at 20MB/sec.

Are you frustrated with how fast the PC industry is advancing? Are you worried that the system you buy today will be obsolete in 3 years? Unfortunately, it will be. PC industry is moving so fast that no matter how powerful your system is, very soon you'll crave more power. It is predicted that around the year 2008 you will own a *Personal Computer* that surpasses the performance of today's $15 million Cray Supercomputer, and your system will be configured with a processor running at **800MHz** and **64Gigabyte** (that's a G) of RAM and you might *not* even have a hard drive. Sound interesting, wait until you read this, it is also predicted that you will no longer need to worry about what kind of hardware you own, because you will be able to run *any* software, regardless of which type of computer it was written for on your PC. In other words, your PC will be able to run software written for PC, MAC or RISC running in emulation mode without even noticing it. Finally, to put this in perspective, *they* say that if the automobile industry advanced at the pace of the PC industry, by now you should have been able to travel around the world in your car with total gas consumption worth $2.

Wish to comment/participate please e-mail: hmmm@nowelec.com

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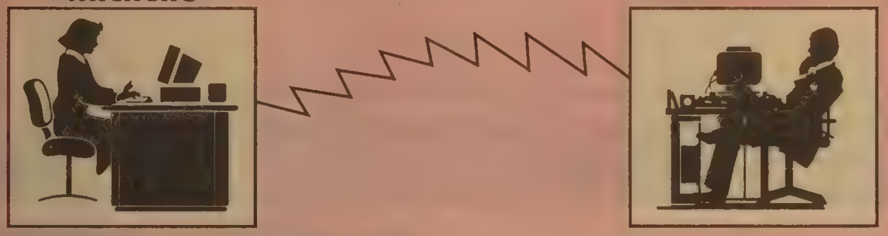

San Francisco, California *New York, New York*

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- **and parking fees ....("Where did this dent come from? Huh? What limited-liability clause?")**

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New Forms Of Virtual Reality

QuickTime VR And Virtual Television Expand Your Sphere

Virtual reality. A concept. A demo. And now, products.

Fully immersive "Lawnmower Man" VR is only the top layer of many modes of computer-aided enhanced spatial navigation. Desktop VR, accessible to the average Macintosh and PC user, is now here in the form of Apple's QuickTime VR (QTVR) and Virtual Television (VTV) on the PC from Warp California Inc. Each, in different ways, provides a spatial freedom of inquiry, whether you "travel" using your monitor or a head-mounted display device.

QTVR and VTV are both compact and robust software-driven solutions supported by efficient compression algorithms, which are expanding the range of personal computing. In QTVR's interface, you are standing at the center of a "doughnut" of space. With VTV, you are looking through the neck of a "mushroom" of space, which can be oriented in any direction.

So far, QTVR and VTV are building blocks for developers to utilize in applications you may encounter in different software and online contexts, and are not yet available at the HyperCard level where the average user can tinker directly with them.

In the last eighteen months, digital video driven by QuickTime and Video for Windows has reshaped the desktop so that motion documents, and now full-screen sequences, have become an expected dimension in multimedia applications. In time, that window may seem "flat" if you can't poke around and wander in its virtual space.

QUICKTIME VR

A QuickTime movie is like a videotape in that it is a "strip" of data. You can stop, start, go forward and backward, and do so at different speeds. QTVR requires QuickTime 2.0.

Unlike the QuickTime movie, the panoramic form of QTVR is non-time-based spatial information. A 35mm camera on a tripod can take from eight to thirty photographs to make up a single 360-degree view. The film is then digitized, and the individual frame files are brought into the QTVR authoring system where their side edges are joined and matched. The point-of-view (POV) is user-driven, by moving the mouse, trackball, keyboard, or from within a head-mounted display (HMD). You can move the POV 360 degrees horizontally; the present

Greetings from Infinite Loop: QuickTime VR provides a tour of the Apple campus

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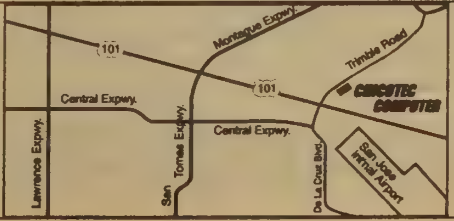

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NEW FORMS OF VIRTUAL REALITY *continued...*

> The ST:NG Windows and Macintosh CD-ROM provides the complete "virtual" tour of Starfleet's organization, equipment, and ship structure.

iteration of QTVR imposes a vertical maximum tilt of about 110 degrees.

There is no limit to your movement within the "doughnut" or "ring" of space in a QTVR document. You can move your POV around with the same unconscious effortlessness you'd use to turn your head and seek with your eyes. Your sense of perspective is automatically corrected in real time by QTVR's spatial-warping algorithm. Move forward and you really "zoom," or "dolly in" to the limits of the periphery. You can also embed "hot spots" within that 3-D doughnut. They can be objects, text, sounds, or any other multimedia entity. Even another QuickTime or QTVR element.

Developers using QTVR can author once on the Macintosh platform and deliver this content to run on both Macintosh and Windows-based PCs. The license fee for QTVR authoring tools is $2000 per seat. Royalties will range from $0.40 to $0.80 per unit. There are no royalties for noncommercial use.

Future directions for QTVR include the ability to create native Apple Power Macintosh run-time software, with which users can experience a dramatic, full-screen experience that totally immerses the user in the virtual environment; native Power Macintosh development tools; decreased panoramic file sizes; zoom-in viewing of interactive objects; and a "C"-level application programming interface.

VIRTUAL STAR TREK

Simon & Schuster Interactive's *Star Trek: The Next Generation Interactive Technical Manual U.S.S. Enterprise NCC-1701-D* ($59.95) is the first release to showcase QTVR. Apple Computer collaborated with S&S to use this title as a test lab and working case study. This Windows and Macintosh CD-ROM provides the complete "virtual" tour of Starfleet's organization, equipment, and ship structure.

In the QTVR sequences, you can freely look around spaces or handle "virtual" 3-D objects like an artifact, dagger, gun, or tool. The CD also serves as a good demonstration of how QTVR may be used in applications such as games, education, training, sales, engineering, museums, kiosks, architecture, travel, and real estate. All of this combines to build a unique audiovisual environment where your curiosity is encouraged and your senses are liberated.

"VIRTUAL TELEVISION": VTV

"Virtual Television," or VTV, allows for real-time playback of high-quality computer graphics and/or video shot with a very

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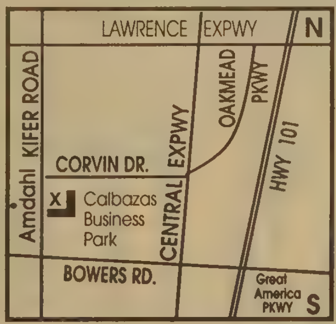

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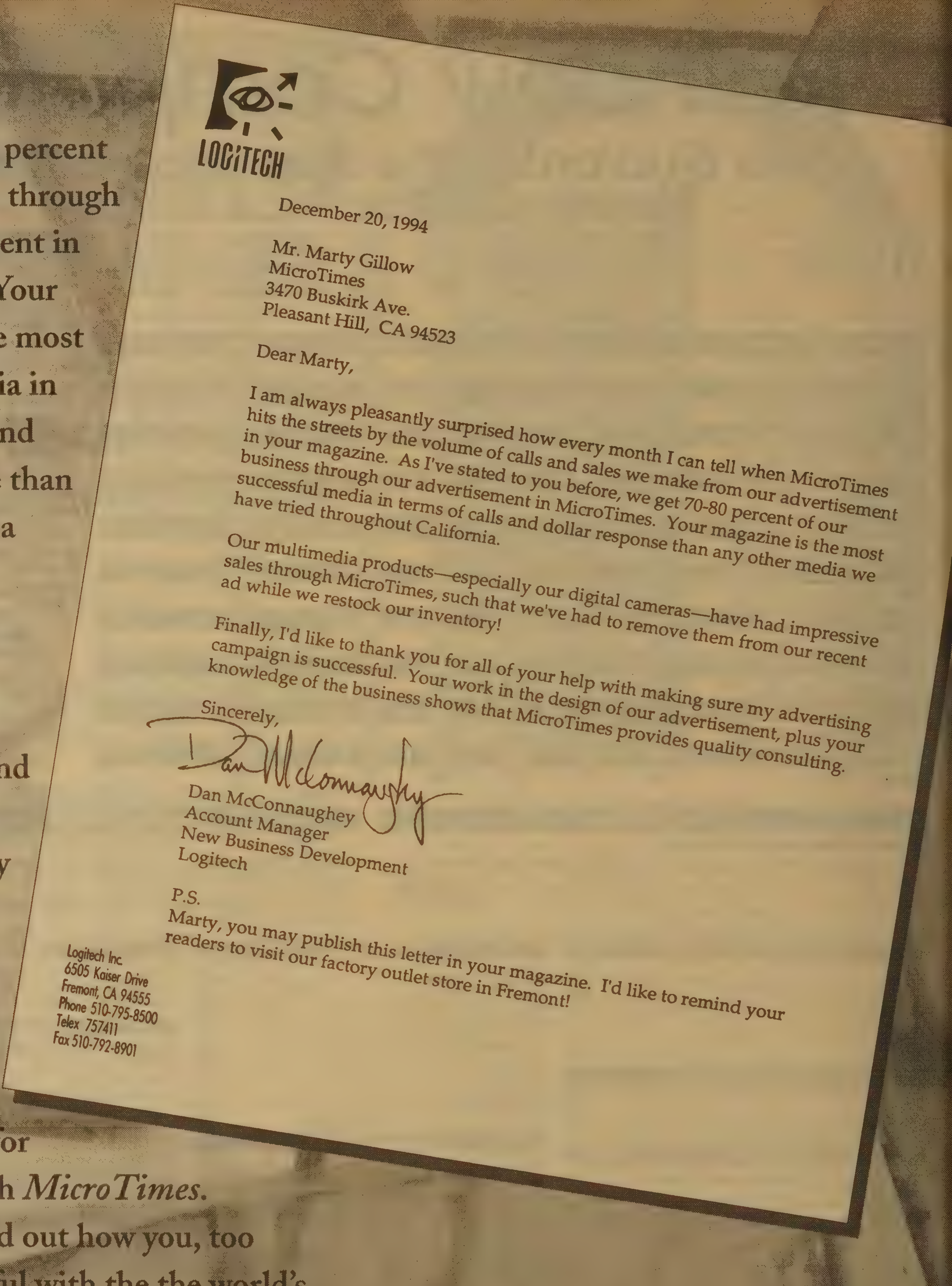

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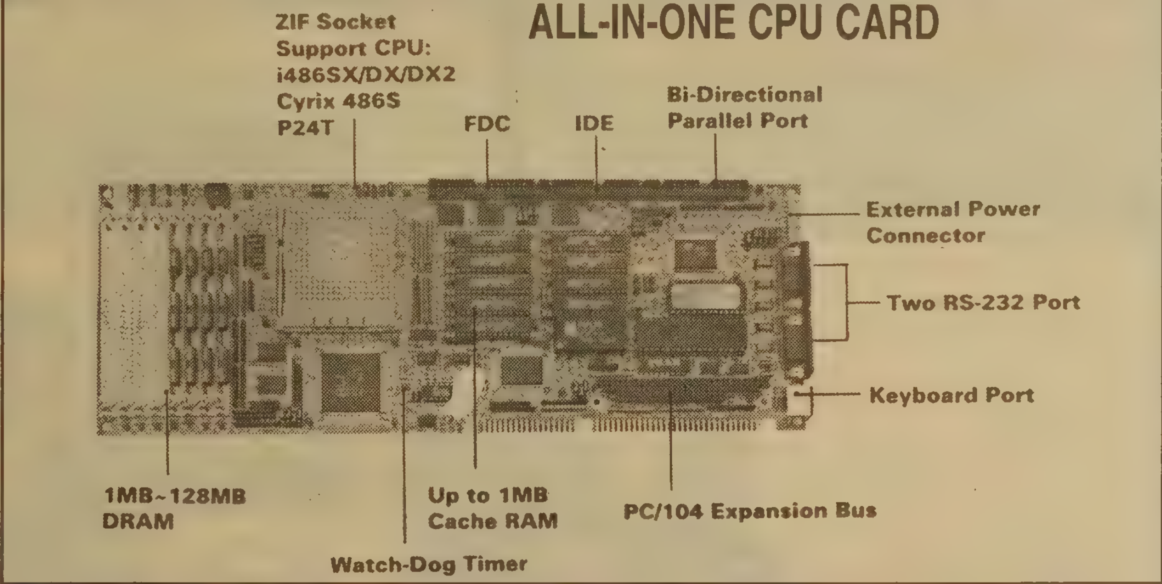

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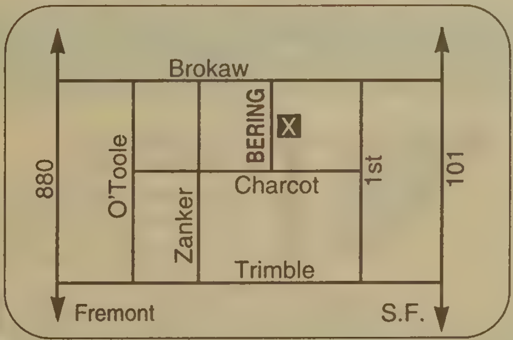

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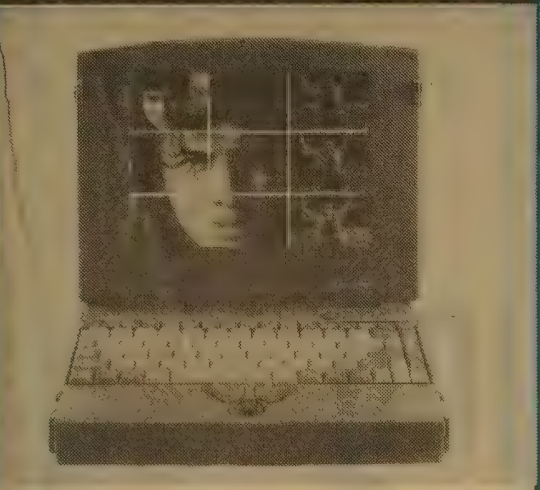

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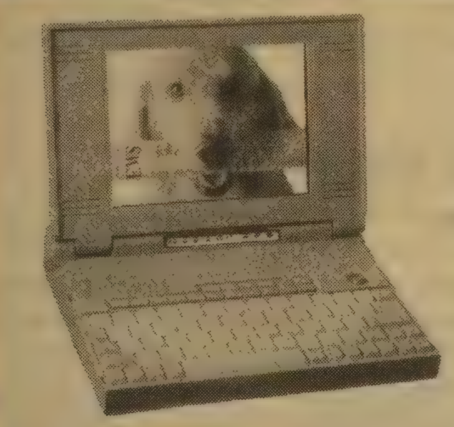

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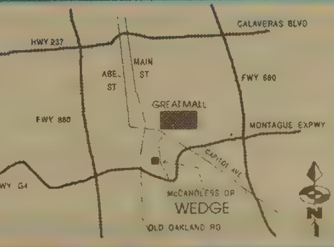

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Tools For Creating Believable Animation

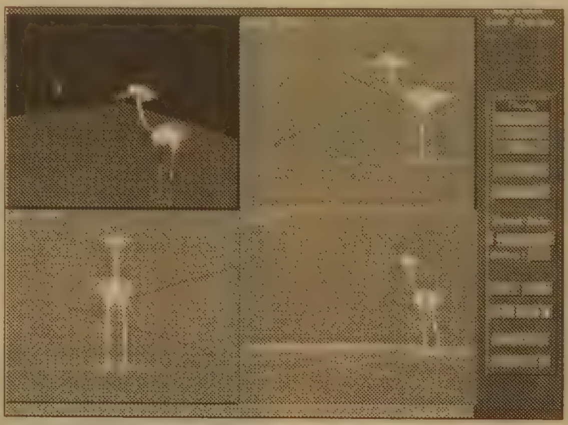
New Features Can Be Plugged Directly Into Autodesk 3D Studio Release 4

Our eyes and minds can easily discern realistic, lifelike movement from the artificial. We've all seen the jerky-legged gait of computer-animated mannequins. But even the tiniest details in computer animation are swiftly noted and found to be credible or tossed out as impostors. Because we are so adept at detecting subtlety and nuance, creating believable motion is one of the biggest challenges in creating quality animation. 3D Studio, Autodesk's 3-D modeling and rendering package, offers two new powerful tools for creating more believable movement in animation with the introduction of Inverse Kinematics and a new language called Keyscript.

Release 4 is being called the plug-in upgrade because many of its improvements are "plugged directly in" to 3D Studio through its open architecture design (IPAS technology).

In general, there are several methods that can be used to create lifelike movement in animation. Disney and other traditional animation studios have used a technique in cartoons called rotoscoping. Rotoscoping involves tracing movement, such as a dancer's steps, frame-by-frame from live-action film. Those traced drawings are then applied to the cartoon characters so that they will move in the same fluid ways as the "filmed" characters.

Electronic motion tracking sensors can be used to achieve realistic fluid motion in computer graphics. These hardware devices are placed on a person walking, for example. That walking motion can be recorded with software and transferred to the computer model, making it walk with the same motion as the real person. Schreiber Institute sells a 3D Studio Plug-in CD-ROM for this purpose called Puppeteer.



Randy the walking Egret in the Fast-Preview window from the Release 4 inverse kinematic tutorial

PHYSICAL-BASED MODELING

Lacking sophisticated external hardware, an animator can replicate motion by means of physical-based modeling methods, which borrow physical properties or rules from the fields of mathematics and physics.

Constraints are one of these borrowed rules. A constraint is like a limit. Think of an arm. If you have a person in your animation you want their arm to move in exactly the directions that it would in real life and you also want to stop it from moving in any unnatural way. This is accomplished with constraints, which are set by defining the degrees of freedom (DOFs). DOFs are the number of ways in which the arm is "constrained" to move.

THE IK PLUG-IN

Inverse kinematics (IK) is an advanced physical-based modeling method that is used to link and move jointed objects. Using the arm as an example

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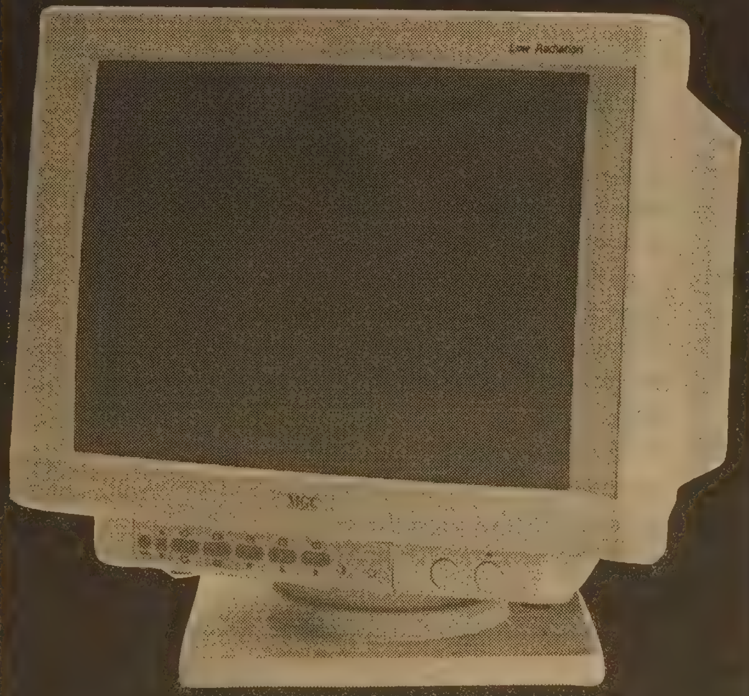

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again, first a hierarchy is established: The fingers are connected to the hand, the hand is connected to the wrist, the wrist to the lower arm, etc., up to the shoulder.

Next, joint constraints are defined. By moving the last link in the chain, the finger, smooth motion is achieved, and the whole arm will follow and move in a fluid, natural way. 3D Studio can automatically figure out the most efficient way to create the IK animation for you, or you can interactively manipulate the animation and decide what looks best.

Several examples of inverse kinematics come with Release 4 to help the animator study various types of motion. These include a figure climbing a ladder and a realistically moving crankshaft. Inverse kinematics is a term once familiar only to programmers and mathematicians. This is a sophisticated feature for the serious animator.

THE KEYSCRIPTING LANGUAGE PLUG-IN

Another area in physical-based modeling where constraints are used in computer graphics is in collision detection. Collision detection can be thought of as the ability of objects to detect other objects and react as they should when they "collide" or meet in 3-D space.

A ball that is dropped in the real world falls, hits the floor, and bounces back up. That seems obvious. But in the virtual world of the computer there is no velocity or gravity or mass and no solidness to make the floor hard. If you don't tell the computer that these properties are important, the ball, when dropped, could fall right through the floor. The ball must somehow be told what the rules are in order to "detect that it has collided" with the floor.

With the new Keyscript language, you can write a few lines of code, and embed that code into the ball to control the ball's behavior, thus telling it to bounce when it collides with the floor. This code can easily be reused or transferred to other objects.

Keyscript is a BASIC-like interpreted language. Because it has user-definable data structures and arrays, it has the full power of a language such as C or Pascal and is not just a scripting language. It also allows for file input and output and supports creating user interface dialog boxes. Because this language was added as a modular plug-in, 3D Studio's "main" code was left intact, and therefore more robust.

One keyscript included with Release 4 demonstrates collision detection by showing the chain reaction that happens to a group of pool balls when hit by a cue ball. Other sample scripts demonstrate elementary physics, path motion controls for acceleration and deceleration, various camera and object controls, and morph management, which is helpful for lip-synching in character animation.

Key New Features In Release 4

Inverse Kinematics
Fast Preview
Keyscript Language
Camera Control and Match Perspective
Quick Preview
EPS Output
100 times speedup of many functions in 3D Editor
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Many IPAS enhancements

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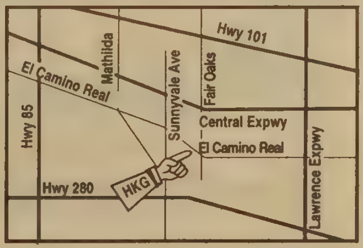

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Fast Preview allows you to create immediate previews (in wireframe, flat, or Gouraud shading) while you work. Previously, you had to wait for the scene to fully render, only to have to wait and render it again if you wanted to make changes.

Using Camera Control, target positions, cameras, and fields of view can all be adjusted interactively, in an already rendered viewport. You can quickly test different options and angles to find the best shot or camera angle.

FILE FORMATS

The Encapsulated PostScript (EPS) plug-in allows for saving EPS files for printing or use in desktop publishing applications. A TIFF file can be included within an EPS file for programs that have thumbnail file viewers. Settings can be customized for size, resolution, and other specifications and are set in a dialog box and saved automatically.

New file formats added in Release 4 include k3d script file for Keyscript, 3de Dialog box file for Keyscript, and DAT Configuration files created by plug-ins.

While Release 3 focused primarily on rendering and image quality, Release 4's main improvement is added realism in motion. One last area that needs to be addressed for 3D Studio to fully achieve modeling realism is the need for a patch modeler. (3D Studio currently uses polygonal modeling, which is not as good for creating organic shapes.) While it is disappointing that due to betatesters' concerns, the patch modeler originally planned for this release was not added, it is to Autodesk's credit that they have chosen not to release it prematurely.

So, without the patch modeler is this upgrade worth it? Yes. Release 4 accomplishes several things: It enables the creation of richer, more lifelike animation with its physical modeling toolset. Its quick preview windows help save rendering time—often a big production bottleneck. It also puts more power into the hands of the animator through code customizability via the Keyscripting language.

There are many other new features not listed here—all of which increase modeling realism, save time, or somehow increase productivity. Release 4 represents a new level of refinement and useability for the animator in the 3D Studio workspace. ■

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RESOURCES:

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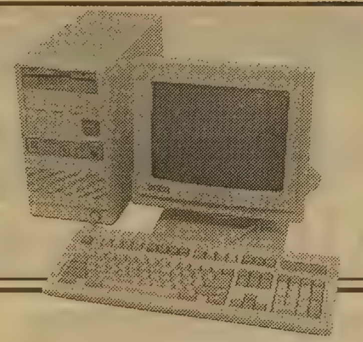

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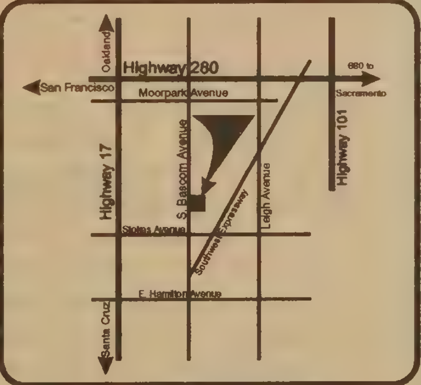

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100DX4-$1220

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UMiracle's new built-for-future motherboard features 30pin and 72pin SIMM sockets for your existing 30pin and new 72pin standard, great for upgrade! Optional 512B cache further enhances windows and ACAD application performance. It features also AMI BIOS, a ZIP socket, and voltage regulator output 3.3V CPU. True EPA Green compliant power saving saves you hundred dollars on electric bills and extend the life of your PC!

AIR-PI 486 PCI/VLB

READY TO GO

- 486 AIR-PI ISA PCI/VLB 256K Cache Green Motherboard
- **8MB** 70ns 72Pin SIMM RAM (8MB x 1pc)
- 1.44M TEAC Floppy Drive
- **540MB** Quantum Enhanced IDE QM30540MVA HD
- **Diamond Stealth 64 PCI 2MB DRAM**
- 14" 1Kx768NI 0.28DP Digital Green Monitor
- Premium Digital Mini Tower 230W PS
- Chicony 101 Enhanced Keyboard
- Microsoft DOS V6.22, Windows V3.11
  & MS Compatible Mouse + Pad

66DX2-$1525
80DX2-$1560
100DX4-$1608

UMiracle

Data to Compare

- Processor	38.70
- Video	4314.47
- Disk	1192.00
DOSMark	635.87
Graphics WinMark	12.00
Disk WinMark	1098

Test result based on our 66MHz system with16MB See your PC Magazine for comparsion.

Intel P5 Premiere PCI 90/100MHz

READY TO GO

- **Intel P5 Pentium Premiere PCI II** 256K Cache Motherboard
  with Enhanced IDE, HiSpd Serials, Enhanced Parallel, 2.88MB Support
- **8MB** 70ns 72Pin SIMM RAM (4MB x 2pcs)
- 1.44M TEAC Floppy Drive
- **730MB Western Digital Enhanced ATAPI IDE WD2700A HD**
- **Diamond Stealth 64 PCI S3-864 2MB DRAM**
- Hitachi SuperScan 15S 1280x1024 0.28DP Green Monitor
- Premium Digital Medium Tower 230W PS
- Keytronic 101 Enhanced Keyboard
- Microsoft DOS V6.22, Windows V3.11
  & MS True Ergonomic Mouse + Pad

75MHz $2204
90MHz $2404
100MHz $2604

Data to Compare

- Processor	100.84
- Video	6575.57
- Disk	1708
DOSMark	1349.04
Graphics WinMark	39.7
Disk WinMark	2485
WinStone	103.4

Test result based on our 90MHz system with16MB. See your PC Magazine for comparsion.

Fully integrated Intel Premiere PCI-II motherboard provides Enhanced IDE interface supporting Logic Block Addressing, Mode-3 IDE, HiSpeed 16550 UART Serials, enhanced Parallel, plus our new perfectly-matched WD 730MB Enhanced IDE, making IDE throughtput the best it can! Diamond Stealth 64 cranks out ultra high 35 Million Winmark V4.0. All these for mid-two thousands! What a package!

[illegible]

- All complete systems are assembled, jumpers and switches setup/configured, DOS V6.22, Windows V3.1 and all included software installed for **testing purpose**, high resolution video monitor mode tested and continously burned in for 48 hours on all components and finally interactively inspected for trouble-free operation. All systems are to be visual inspected by customer at pick up time.
- Systems marked with "READY-TO-GO" have been pre-built, burn-in tested and are ready to be picked up or delivered within 30 minutes IN FREMONT MAIN OFFICE - Please allow more time for minor.configuration changes. Standard delivery time is 72hours.
- Free delivery area includes local area within 30 minute driving distance. No delivery on weekends. Delivery out of local area will be charged up to $30 freight.
- Most components come with over 1 year manufacturer warranty - First year will be covered by UMiracle. Warranty after the first year will be covered by component manufacturers.
- While-you-wait immediate service should there be any neccessary warranty repair. If we couldn't solve the problem, another system will be built (at our discretion, if purchased within 30 days.)
- All pickups, repairs, exchanges, upgrades can be done in either Fremont or Albany store. Original invoices & records required.

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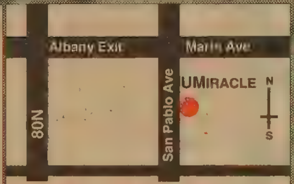

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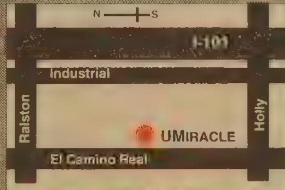

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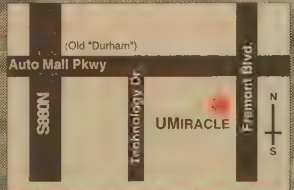

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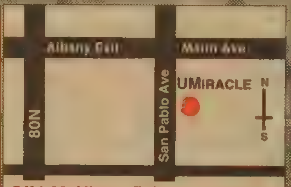

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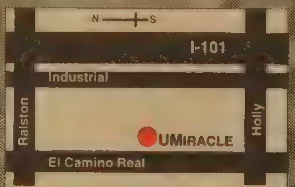

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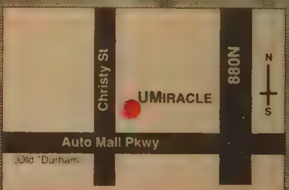

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486 **AIR-SH-2** Green ISA VLB 256K - 3 VLB slots, Upto 128MB by 72Pin, ZIF, P5 OD support, Bus-master, 3.3V CPU Suppt, AMI BIOS, SIS Chipset, U.S. Quality.	$130
486 **AIR-PI** Green ISA/PCI/VLB - 3 PCI/2 VLB/5 ISA Slots, ZIF, P5 OD Support, Intel ChipSet, Upto 128MB by 72Pin SIMM, Bus-master, Onbrd 3.3V CPU Suppt, AMI BIOS, Built-in Enhanced Mode 3 IDE port, FD controller supporting 2.88MB, dual 16550 UARTs, Enhanced EPP Parallel port, 256K/512K	$215/295
Pentium **Intel Premiere PCI II Plato** 90/100MHz 256K, suppt 72Pin SIMM, bulit-in PCI-IDE & ISA IDE Interface, FD, 2 hi-spd Serials, enhanced Parallel, support Enhanced IDE LBA Mode-3, support 4 IDE HDs. Flash AMI ROM,PwrSaving, Neptune Chpst	$370
Pentium 586 **AIR-54CMI SpitFire** 512K 90/100MHz PCI/VLB/ISA - 3 PCI/2 VLB/5 ISA Slots, ZIF, Opti ChipSet, Upto 128MB by 72Pin SIMM, Bus-master, AMI BIOS, Built-in Enhanced Mode 3 IDE port, FD controller supporting 2.88MB, dual 16550 UARTs, 1 Enhanced EPP Parallel Port	$420
Pentium 586 **AIR-EP 90 Tornado** 512K 90/100MHz EISA/PCI - 2 PCI/4 EISA(ISA compatible) Slots, ZIF, Intel Mercury Chipset, Upto 128MB by 72Pin SIMM, Bus-master, AMI BIOS, 32-bit PCI bus-mastering SCSI ports using Adaptec AIC 7870 controller (AHA-2940W equvialent) supporting 50Pin Fast SCSI-2 & 68Pin Fast WIDE SCSI-2, onbrd floppy ports supporting 2.88MB, High speed 16550 UART com1 and com2 ports, bi-directional enhanced parallel port, 50pin SCSI cables & complete sftwre driver included	$675
Pentium 586 **AIR-54CDP Dual 90 Tornado** 512K 90/100MHz EISA/PCI - 2 PCI/5 EISA(ISA compatible) Slots, ZIF, Intel Neptune Chipset, Upto 512MB by 72Pin SIMM, Bus-master, AMI BIOS, 32-bit PCI bus-mastering SCSI ports using Adaptec AIC 7870 controller (AHA-2940W equvialent) supporting 50Pin Fast SCSI-2 & 68Pin Fast WIDE SCSI-2, onbrd floppy ports supporting 2.88MB, High speed 16550 UART com1 and com2 ports, bi-directional enhanced parallel port, 50pin SCSI cables and complete software driver included	$880

CPU & Memory: (Prices Subject to Change Daily)

Pentium P5-90/100MHz 3.3V CPU	$Call
Pentium P5-60/66MHz 5V CPU	$Call
Intel 486-66DX2/100DX4	$Call
AMD 486-66DX2/80DX2/100DX4 3.3V or 5V	$Call
CPU on-Socket Voltage Regulator 5V to 3.3V	$30
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1MB Video VRAM (256Kx8-70ns VRAMx4pcs)	$70
4MB RAM SIMMs (1M-70ns 30-Pin SIMMx4pcs)	$Call
16MB RAM SIMMs (4M-70ns 30-Pin SIMMx4pcs)	$Call
72Pin 70ns RAM SIMM (4/8/16/32/64MB)	$Call

I/O Card/Controller Card/Network Card

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16 Bit IDE/4FD with 2S/1P/1G 2.88MB support, HiSpd 16550 UART's on Serial ports	$35
VLB 32 Bit Enhanced 4-IDE/2-FD 2S/1P/1G Controller Supporting 4 Mode3 & 4 E-IDE devices	$30
VLB 32 Bit Enhanced 4-IDE/4-FD 2S/1P/1G Controller Supporting four Mode3 & 4 E-IDE devices, 4 Floppy drives including 2.88M, hi-spd 16550 UARTs, bi-directional ECP/EPP Parallel	$55
Adaptec 1522/1522K SCSI controller with FD	$85/135
Adaptec 1542C Bus-master SCSI FD Bare	$160
Adaptec 1542CK Bus-master SCSI FD w/ Kit	$230
Adaptec 2940 PCI Fast PCI SCSI-2 Bare for Systm.	$185
Adaptec 2940 PCI Fast PCI SCSI-2 Kit	$265
Adaptec 2940W PCI Fast WIDE SCSI-II, 20MB/s burst, 15 SCSI devices support with 50pin ribbon cable Bare version for System only	$245
Adaptec 2940W PCI Fast WIDE SCSI-II, 20MB/s burst, 15 SCSI devices support with 50 & 68Pin ribbon cable Complete Kit with software	$325
NCR 53C825 PCI Fast WIDE SCSI-2 68Pin & Fast SCSI-2 50Pin, Support 15 devices, 10MB/S Async, 20MB/S Sync, Complete NCR SDMS software driver with 50pin ribbon cable (no 68pin ribbon cable)	$135
SideGold VLBus Fast SCSI-2, Enhanced-IDE w/ high-speed I/O Controller - Implement with latest Adaptec SCSI 6360 chip supporting HD > 2GB, up to 10MB/Sec DTR, complete EZ-SCSI Software, support E-IDE HD > 528MB, Mode 3 protocol, compatible with ATAPI E-IDE devices. 2 hi-speed 16550 UART serial ports, programmable baud rate generator, bi-directional multi-mode parallel port with ECP/EPP, user friendly jumperless design	$160
External SCSI-2 50Pin Micro-D Adapter for any onboard internal 50pin ribbon cable SCSI interface	$35
Ethernet NE2000 Adapter Coaxial/10-Base T/Combo	$40/$40/$50
3COM Etherlink III - 3C509 16bit Coax/10-baseT	$105
3COM Etherlink III - 3C509 16bit Combo	$110
3COM Etherlink III - 3C579 EISA 32bit 10-baseT/Coaxial	$225
PCI Ethernet Network Card	$Call

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16Bit 512K/1MB Trident SVGA 1024x768NI	$38/55
16Bit 1MB Tseng-4000 72Hz 32K Color	$68
S3-805 VLB Windows Accelerator 1280x1024, 16.7Million Color	$70/120
Orchid Kevin 64 Cirrus Logic CL-GD5434 VLB or PCI version 1MB/2MB DRAM	$125/175
Diamond Stealth 64 PCI/VLB 64Bit Graphic Engine S3-864 1MB/2MB DRAM	$130/180
Diamond Stealth 64 PCI/VLB 64Bit Graphic Engine S3-964 2MB/4MB VRAM	$265/405
Diamond Viper PCI 2MB VRAM Weitek Power 9000 Chipset	$220
Diamond Viper SE 64Bit Graphic Engine Weitek 9100 chipset 2MB VRAM	$260
Diamond Viper Pro 64Bit Graphic Engine Weitek 9100+9130 chpst 2MB/4MB VRAM	$390/530
ATI Win Turbo Pro PCI 2/4MB VRAM	$270/455
ATI Graphic Turbo Pro PCI 2/4MB VRAM	$385/585
Matrox Impression Plus /PCI 2MB VRAM	$385
2MB VRAM upgrade board for Impression Plus	$265
Matrox/Number Nine/Hercules Video Card	$Call

Monitor

14" ExView1Kx768NIx0.28DP Digital Ctrl Green	$215
15" ExView1280x1KNIx0.28DP Digital Ctrl Green	$330
Hitachi SuperScan 15S, 15" NI, 1280x1024, 0.28DP, FlatScreen, EPA Green, Digital Controlled	$415
MAG DX17FG 17" Digital Control 30-64KHz, 1280x1024NI, upto 76Hz, .26DP, Green, MPRII, VESA DPMS	$665
Sony CPD-15SF 15" Trinitron 0.25DP 1280x1024, Green Support, 3 Year Manufacturer Warranty	$415
Sony CPD-17SF 17" Trinitron 0.25DP 1280x1024, Green Support, 3 Year Manufacturer Warranty	$875
Viewsonic 17G 17" Green W/on-Screen Cntrl	$755
Viewsonic 17 17" 0.28DP 1280x1024NI Digi.Cntl.	$875
Viewsonic 20 20" 0.28DP 1600x1280NI Digi.Cntl.	$1425
Viewsonic 21 21" 0.26DP 1600x1280NI Digi.Cntl.	$1645
NEC, Nanao, Nokia, KFC Monitor	$Call

Modem

Digicom 14.4K Fax/Data Internal 16550 UART	$65
US Robotics Sportster 14.4K Data/Fax 16550UART V32.bis, V.32, V.42 Internal/External	$97/117
US Robotics Sportster 28.8K V.34 Data/28.8K Fax, 16550UART, Internal	$219

Floppy Drive/Tape Backup

Teac 1.2M 5.25"/1.44M 3.5"	$44/35
Teac Dual 1.44M & 1.2M Combo	$95
Colorado 250MB TapeBackup Internal	$155
3M Tape Cartridge DC2120 for 250MB QIC-80	$15

KeyBoard/Mice/Software/Chassis/PS/Misc

MicroSoft Natural Keyboard	$95
Chicony 101 Enhanced Keyboard	$15
KeyTronic 101 Enhanced U.S. Made	$25
Focus 2001 101 Enhanced Click w/Cover	$32
Focus 8000 111 with Calculator	$40
Focus 9000 129 Programmable w/Calculator	$55
NorthGate OmniKey 101NI/102	$74
MS Compatible 3-Button Mouse	$8
MicroSoft Ergonomic Serial Mouse	$35
Logitech Mouseman Serial	$45
Logitech Trackman Serial	$75
MS DOS 6.22/Windows V3.11/WFWG V3.11	$45/45/65
Premium Case w/230W Mini/Desktop/Med	$55/60/80
Premium Case w/250W Full Size Tower	$100
Power Supply PS-II Type 230W	$32
486 CPU Cooling Fan with heat sink	$8
P5 60/66MHz CPU Cooling Fan w/heat sink	$13
P5 90/100MHz CPU Cooling Fan w/heat sink	$16
Chassis Second Cooling Fan 3" or 3.5"	$15
Motherboard Crystal for 25/33/40/50/66/80MHz.	$5
Printer Cable 10"/15"/25"	$7/9/16
FAST WIDE SCSI-2 internal Ribbon Cable, hi-density, 68Pin, 2 connectors / 3 connectors	$35/45
SCSI Cable Centronic to Micro-D 50Pin 3"	$39
SCSI Cable Centronic to Micro-D 68Pin 3"	$69
SCSI Cable Micro-D 68Pin to Micro-D 68Pin 6"	$99

CD-ROM Drive:

CD-ROM ISA Controller w/Software for Panasonic, Mitsumi, Sony	$25
Mitsumi FX-400 Quad Speed ATAPI IDE	$199
Sony CDU-55E Double Speed ATAPI IDE 250ms caddyless software driver included	$135
Toshiba XM-3501B QuadSpd SCSI-2 256K Cache 120ms, 600KB/Sec Sustained, MutlSpin/Spd Internal	$275
TEAC CD-55 Quad speed AT 195ms, 600kb/sec, Panasonic interfce compatible, w/ controller, cable and software	$299
NEC Quad Speed 4Xi 600Kb/sec, 220ms, 256K Cache, Internal	$375
Plextor 4-Plex QuadSpeed PX-43CH 600Kb/sec, 220ms, 1MB Buffer, 2-yr warranty	$420
CD-ROM Caddy	$5

Sound Card/Speaker/MultiMedia Package:

Media 690 Hi-Fi Amplified Stereo Speakers	$40
80W TopTek Amplified Stereo Speaker	$55
150W Amplified MultiMedia PS-290 Speakers	$95
Sound Blaster 16 Value Edition	$98
Sound Blaster 16 SCSI	$159
Sound Blaster 16 SCSI with ASP	$189
Sound Blaster 16 MultiCD	$129
Sound Blaster 16 MultiCD with ASP	$159
Sound Blaster 32 AWE Value	$230
Sound Blaster 32 AWE with ASP	$265
Audio Cable - CD-ROM to Sound Card	$5
Sound Blaster Digital School House Kit	$285

HardDisk:

Western Digital

420MB IDE WDAC2420 - Enhanced IDE ATAPI	$199
540MB IDE WDAC2540 - Enhanced IDE ATAPI	$242
730MB IDE WD2700A - Enhanced IDE ATAPI	$287
850MB IDE WD2850A - Enhanced IDE ATAPI	$335
1080MB IDE WD31000A - Enhanced IDE ATAPI	$446
1.2GB IDE WD31200A - Enhanced IDE ATAPI	$520

Quantum

540MB IDE QM30540MVA 12ms	$235
540MB SCSI-2 QM30540MVS 12ms	$255

Conner

420MB IDE CFS420A 14ms	$189
850MB IDE CFA850A Fast Enhanced IDE	$359
1.2GB IDE CFA1275A Fast 12ms Enhanced IDE	$520

Seagate

1.08GB ST31200N Fast SCSI-2 9ms, 3.5"x1"	$559
2.1GB ST12550N Fast SCSI-2, 8.5ms, 3.5"	$1175
4.3GB ST15230N Fast SCSI-2, 8ms, 3.5"	$1925
9.0GB ST410800N Fast SCSI-2, 11.5ms, 5.25"	$3650

FAST WIDE SCSI-2 HARD DISK (68Pin Wide Connection)

Fujitsu M2694EQA 1.08GB Fast Wide SCSI-2	$565
Micropolis MC2217DW 1.75GB Fast Wide SCSI-2	$1285
Seagate ST32550W 2.1GB Fast Wide SCSI-2 1"	$1295
Seagate ST15150W 4.1GB 8ms Fast Wide SCSI-2	$2695

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Resources

Calendar Of Events

Conferences, Shows, Special Events

March

March 4 Computer Show And Sale Expo. San Mateo Expo Center. Bonanza Show Productions. Call: Joe, (415)595-1053.

March 4–5 Computer Products Show And Sale. Cal Expo, Sacramento. MarketPro. Call: (415)456-6730.

March 5 Computer, Ham Radio, Electronics Swap Meet. Las Positas College, Livermore. Livermore Amateur Radio Klub. Call: (510)783-2803 days, 447-3857 eves.

March 7–9 Documation '95 Conference And Expo. Long Beach. Graphic Communications Association. Call: Marion Elledge, (703)519-8193 (conf.) or Kathleen Kaiser (805)984-4364 (expo.).

March 8–10 Ventura Publisher Summit Conference. Santa Clara. R. Altman And Associates. Call: (408)252-5448.

March 11 Computer Products Show And Sale. Sonoma County Fairgrounds, Santa Rosa. MarketPro. Call: (415)456-6730.

March 13–14 Mobile Forum 95 Conference. San Jose. Technologic Partners. Call: (212)696-9330.

March 14–18 Technology And Persons With Disabilities Conference. Los Angeles. Center on Disabilities. Call: (818)885-2578, email: *ltm@csun.edu* .

March 15 Live Internet Interview With Dr. Martha Manning: Author, *Undercurrents: A Therapist's Reckoning With Her Own Depression.* Internet Relay Chat. Internet Roundtable Society. Email: *IRinfo@fununiv.com*; WWW: *http://www.IRsociety.com*, Gopher: *gopher.IRsociety.com* .

March 15–16 SoftEx Accounting And Finance Software Show. San Francisco. Interactive Information Systems and KPMG. Call: 1-800-807-6389.

March 18–19 Computer Products Show And Sale. Solano County Fairgrounds, Vallejo. MarketPro. Call: (415)456-6730.

March 20–24 PCB Design Conference. Santa Clara. Miller Freeman, Inc. Call: Yolanda White, (415)905-4994.

March 25 Computer Show And Sale Expo. Santa Clara County Fairgrounds, San Jose. Bonanza Show Productions. Call: Joe, (415)595-1053.

March 25–26 Computer Products Show And Sale. Cal Expo, Sacramento. MarketPro. Call: (415)456-6730.

March 26 Computer Products Show And Sale. Civic Auditorium, Stockton. MarketPro. Call: (415)456-6730.

March 27–31 PCI Week Bus Industry Conference And Expo. Santa Clara. *EDN* magazine. Call: 1-800-462-1042.

March 28–31 The Fifth Conference On Computers, Freedom, And Privacy. Burlingame. Association for Computing Machinery. Call: (415)548-9673 or email: *Info.CFP95@forsythe.stanford.edu* .

April

April 2 Computer, Ham Radio, Electronics Swap Meet. Las Positas College, Livermore. Livermore Amateur Radio Klub. Call: (510)783-2803 days, 447-3857 eves.

April 2 Computer Show And Sale Expo. Alameda County Fairgrounds, Pleasanton. Bonanza Show Productions. Call: Joe, (415)595-1053.

April 4–6 PC Card '95—The PCMCIA Conference And Exhibition. San Jose. DCI. Call: (508)470-3880.

April 6–7 Technology Marketplace '95 Conference. San Francisco. *Advertising Age's Business Marketing*. Call: 1-800-243-3238.

April 10–13 AIIM Show And Conference. San Francisco. Smith & Shows. Call: (301)587-8202.

April 10–13 Internet World 95 Conference And Expo. San Jose. Mecklermedia. Call: 1-

MARCH 7–9

Documation '95 Conference & Expo

LONG BEACH CONVENTION CENTER, LONG BEACH

The Second Annual Documation '95 Conference & Expo, with more than one hundred trade show exhibits, will feature the entire range of document management technology and solution strategies. Exhibitors representing all aspects of the emerging document management industry will show their established solutions to existing corporate enterprise information requirements alongside new applications and technology. The Conference will offer technical information, valuable case studies, expert solutions, and problem-solving techniques. Documation '95 is sponsored by Graphics Communications Association and Publishing Technology Management; call 1-800-865-6493 for more information.

MARCH 25

Computer Show And Sale Expo

SANTA CLARA COUNTY FAIRGROUNDS, SAN JOSE

Bonanza Show Productions presents the Computer Show and Sale Expo at the Santa Clara County Fairgrounds in San Jose. There will be millions of dollars of state-of-the-art computer merchandise under one roof at the lowest prices in the country. Everything from CD-ROMs to software and hardware to memory chips, peripherals, and more. Admission is $5, and all display ads have a $1 coupon. Children twelve and under are free. The Fairgrounds are located at 344 Tully Rd. in San Jose. For more information call (415)595-1053.

APRIL 10–13

Spring Internet World 95

SAN JOSE CONVENTION CENTER, SAN JOSE

Spring Internet World 95 is one of the largest conferences focusing exclusively on the Internet and the World Wide Web. In addition to hundreds of exhibitors—including America Online, eWorld, CommerceNet, CompuServe, Dow Jones Information Services, IBM, Knowledge Adventure Worlds, Microsoft, and WAIS Inc.—showcasing their products, there will be eleven conference tracks covering The Business of the Internet, Internet Security, Internet Publishing, the World Wide Web, Internet Tools and Utilization, online services, ISDN, What's New, corporate providers, TCP/IP tools, and the Internet Village. For more information or to register call Mecklermedia at 1-800-632-5537 or email *iwconf@mecklermedia.com* .

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15 WATT SPEAKERS	$39
VLB SVGA CARD 1MB	$79
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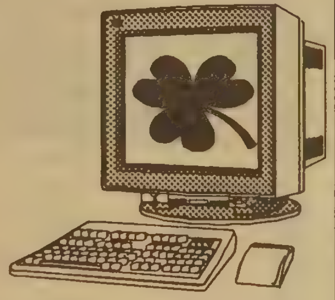
QUANTUM 210 HD	$159
QUANTUM LTN.540 HD	$259
TEAC QUAD CD-ROM	$269
SONY IDE CD-ROM	$134
TAPE BACKUP	$155
386DX-40 MB/CPU/128	$95



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486 DX4 100 W/256K VLB	$599
486 DX2-66 W/256K PCI	$379
486 DX2-66 W/256K VLB	$295
486 DX-40 W/256K VLB	$255
486 DX-33 W/256K VLB	$229
486 SX-33 W/256K VLB	$184
SLC 66 W/64K	$175
386DX-40 W/128K ISA	$97

INTEL PENTIUM-66

PENTIUM 66 W/256K PCI
8MB RAM 70NS 72 PINS (MAX·128MB)
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MICROSOFT COMPATIBLE MOUSE
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PCI IDE CONTROLLER BUILT-IN
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1.2 & 1.44MB FDD
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VLB SVGA CONTROLLER
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SOUND BLASTER 16
MINI TOWER CASE
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MICROSOFT COMPATIBLE MOUSE
MICROSOFT CD BUNDLE

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6 CD TITLE PAK
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PENTIUM 66 W/256K VLB	$1449
PENTIUM 60 W/256K VLB & PCI	$1499
PENTIUM 60 W/256K VLB	$1399
485DX-4-100 W/256K VLB	$1339
486DX2-66 W/256K VLB	$1079
486DX-40 W/256K VLB	$1019
486DX-33 W/256K VLB	$999
486SX-33 W/256K VLB	$939

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101 ENHANCE KEYBOARD
MINI TOWER CASE
IDE CONTROLLER W/2S/1P/1G
SERIAL MOUSE

UPGRADES ADD

420MB HARD DRIVE	$60
540MB HARD DRIVE	$100
15" VEIWSONIC 15ES	$120
VLB IDE CONTROLLER	$11
VLB VGA CONTROLLER	$38
250MB TAPE BACKUP	$155
DOUBLE SPEED CD-ROM	$132
SOUND BLASTER 16	$95
CD PAK 6 TITLES	$39
MICROSOFT MOUSE	$24
4MB RAM 70NS	$165

SPECIAL

486DX2-66 SYSTEM

486DX2-66 W/3VLB SLOTS & 256K CACHE
4MB RAM 70NS
420 IDE HARD DRIVE
VLB HD CONTROLLER W/2HD,2FD,2S,1G,1P
VLB SVGA CONTROLLER 1MB
14" SVGA MONITOR .28 NI
1.44 FLOPPY DRIVE
101 ENHANCED KEYBOARD
MINI TOWER OR DESK TOP CASE
DOS 6.22 & WINDOWS 3.11 W/MANUALS
MICROSOFT COMPATIBLE MOUSE

$1159

DX-33 MULTIMEDIA SYSTEM

486DX-33 W/3VLB SLOTS & 256K CACHE
4MB RAM 70NS
210 IDE HARD DRIVE
VLB HD CONTROLLER W/2HD,2FD,2S,1G,1P
VLB SVGA CONTROLLER W/5428 .ACC. CHIP
14" SVGA MONITOR.28 NI
1.44 FLOPPY DRIVE
101 ENHANCED KEYBOARD
SONY DOUBLE SPEED CD-ROM
SOUND BLASTER 16
MINI TOWER CASE
DOS 6.22 & WINDOWS 3.11 W/MANUALS
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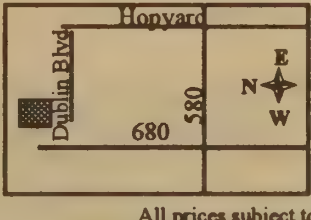

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April 11–13 OSF DCE User And Developer Conference. San Jose. Open Software Foundation. Call: 1-800-767-2336.

April 18–21 Folio:West Conference And Expo. Los Angeles. *Folio* magazine. Call: 1-800-927-5007.

April 19–21 Field And Sales Force Automation Conference. Santa Clara. DCI. Call: (508)470-3880.

April 19–21 QuarkXPress Conference. San Francisco. Thunder Lizard Productions. Call: 1-800-221-3806 or (206)285-0305.

April 20–21 Email World And Web World Conference And Expo. Santa Clara. DCI. Call: (508)470-3880.

April 29 Computer Products Show And Sale. Cal Expo, Sacramento. MarketPro. Call: (415)456-6730.

May

May 1–5 DB/Expo And Conference. San Francisco. Blenheim. Call: 1-800-232-3976.

May 2–4 Desktop Video Conferencing Conference And Exhibition. San Francisco. DVC. Call: David Allen, (516)883-3382.

May 2–4 Networks Expo. San Francisco. Smith & Shows. Call: (201)346-1400.

May 7 Computer, Ham Radio, Electronics Swap Meet. Las Positas College, Livermore. Livermore Amateur Radio Klub. Call: (510)783-2803 days, 447-3857 eves.

May 7–11 1995 Conference On Human Factors In Computing Systems. Denver, CO. ACM. Call: (410)263-5382.

May 16–17 Developing An Outsourcing Strategy Conference. Monterey. DCI. Call: (508)470-3880.

May 17–19 Government Technology Conference West. Sacramento. Smith & Shows. Call: (916)363-5000.

May 22–25 SunWorld '95 Conference And Expo. San Francisco. Mitch Hall Associates. Call: (617)361-8000.

May 24–26 International Trade Expo 1995. San Jose. CATE, Inc. Call: (415)903-2288.

May 26–29 International Electronics, Computer, And Communication New Tech Expo '95. GuangZhou, China. CATE, Inc. Call: (415)903-2288.

June

June 4 Computer, Ham Radio, Electronics Swap Meet. Las Positas College, Livermore. Livermore Amateur Radio Klub. Call: (510)783-2803 days, 447-3857 eves.

June 19–21 NeXTStep Expo. San Francisco. Smith & Shows. Call: (508)470-3870.

Classes, Workshops, Seminars

March

March 4 CNE Hands-On Study Group. Oakland. Excel Micro Solutions. Call: (510)836-2040.

March 5 Internet For Activists Benefit Seminar. San Francisco. Internet LIteracy Consultants. Call: (415)469-8271.

March 6 Certified Software Manager Seminar. San Jose. Software Publishers Association. Call: Becky Howland, (202)452-1600 ext. 367.

March 6 Complete Online Novell CNA Training. Berkeley. Cyber State University. Call: (510)253-TREK.

March 6 Intro To Excel For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

March 6 Using Microsoft Windows 3.0 And 3.1 Workshop. Sacramento. SkillPath, Inc. Call: 1-800-873-7545.

March 6–7 Accessing Online Services Seminar. San Jose. Data-Tech Institute. Call: (201)478-5400.

March 6–7 Advanced PC Troubleshooting Seminar. San Francisco. Essential Seminars. Call: 1-800-723-7025.

March 6–7 Fundamentals Of Telecommunications Seminar. Sacramento. Data-Tech Institute. Call: (201)478-5400.

March 6–7 MS Word Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

March 6 & 8 Excel/Windows 1 Class. Oakland. PCLink. Call: (510)562-5511.

March 6–9 Professional AutoCAD Level 1 Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

March 6 & 10 Graphic Design: The Transition Into Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

March 7 Fox Pro 2.6 For DOS/Windows/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Call: (510)653-0808 ext. 209.

March 7 Intro To WordPerfect For Windows Class. Walnut Creek. Computer Education Center. Call: (510)937-2566.

March 7 Microsoft Word For Beginners Class. San Francisco. Lindquist & Lukrich Consulting. Call: (415)905-5499.

March 7 Using Microsoft Windows 3.0 And 3.1 Workshop. San Rafael. SkillPath, Inc. Call: 1-800-873-7545.

March 8 Digitizing Video For CD-ROM Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

March 8 PowerPoint 4.0 For Windows/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Call: (510)653-0808 ext. 209.

March 8 Using Microsoft Windows 3.0 And 3.1 Workshop. Monterey. SkillPath, Inc. Call: 1-800-873-7545.

March 8–9 MS PowerPoint Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

March 9 Frame Relay Class. San Francisco. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

March 9 Intro To Internet Business Solutions Class. Palo Alto. Internet Business Solutions. Call: Kristina Schillberg, (415)617-3720.

March 9 MAS 90 Accounting Software Training Class For Intermediate Users. San Francisco. Lindquist & Lukrich Consulting. Call: (415)905-5499.

March 9 PC Hardware Fundamentals Hands-On Class. Oakland. Excel Micro Solutions. Call: (510)836-2040.

March 9–10 CNE Quickpath Test Review Seminar. San Francisco. Center for Advanced Professional Development. Call: (714)261-0240.

March 9 & 18–19 Digital Storytelling: An Intro To The Tools Of Digital Video Through Story Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

March 10 Networking For Dummies Seminar. Emeryville. Network Computing. Call: (510)568-8007.

March 10 Using Microsoft Windows 3.0 And 3.1 Workshop. Oakland. SkillPath, Inc. Call: 1-800-873-7545.

March 10–12 Avid: Intro To Media Composer Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

March 11 Publish The Net Class. San Francisco. Center for Electronic Art. Call: (415)956-6500.

March 11 Web Publishing Workshop. Palo Alto. Internet Business Solutions. Call: (415)617-3720.

March 13 Complete Online Novell CNE Training. Berkeley. Cyber State University. Call: (510)253-TREK.

March 13 Data Communications I: An Intro To Data Concepts Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

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continued on page 282

PC TEN

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- Medium Tower Case
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Star Topology 8 Bit / 16 Bit ISA Card	$39/$44
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SMC	
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Elite 16 Combo / 32 Coax / 32 TP	$89/$210/210
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14400 Fax Modem / w. Voice Int	$55/$69
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MISC

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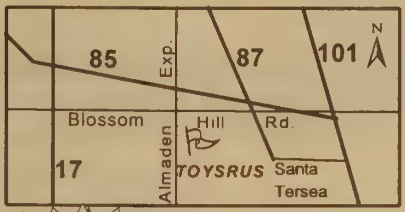

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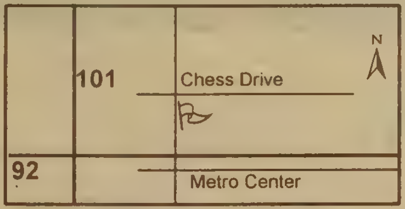

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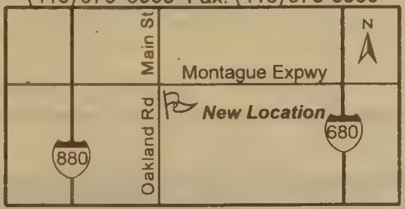

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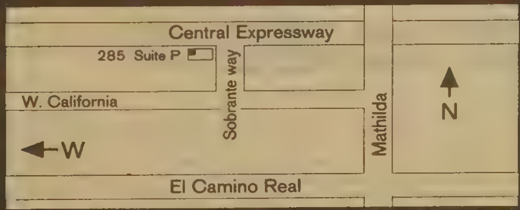

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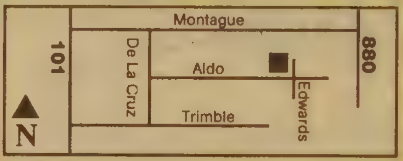

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March 21 Using Microsoft Windows 3.0 And 3.1 Workshop. San Francisco. SkillPath, Inc. Call: 1-800-873-7545.

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March 23–April 20 Software Product Marketing Literature Class. Atherton. UC Berkeley Extension. Call: (510)642-4151.

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March 27 ClarisWorks Class. Palo Alto. MacAcademy. Call: (415)381-7331.

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March 27–28 Novell System Supervisor 3.12 Class. Emeryville. Northwest Computer Systems. Call: (510)653-0808 ext. 209.

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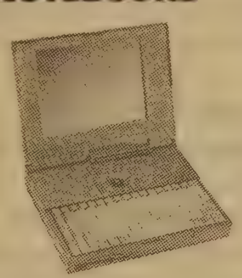

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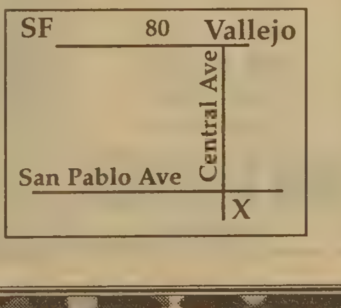

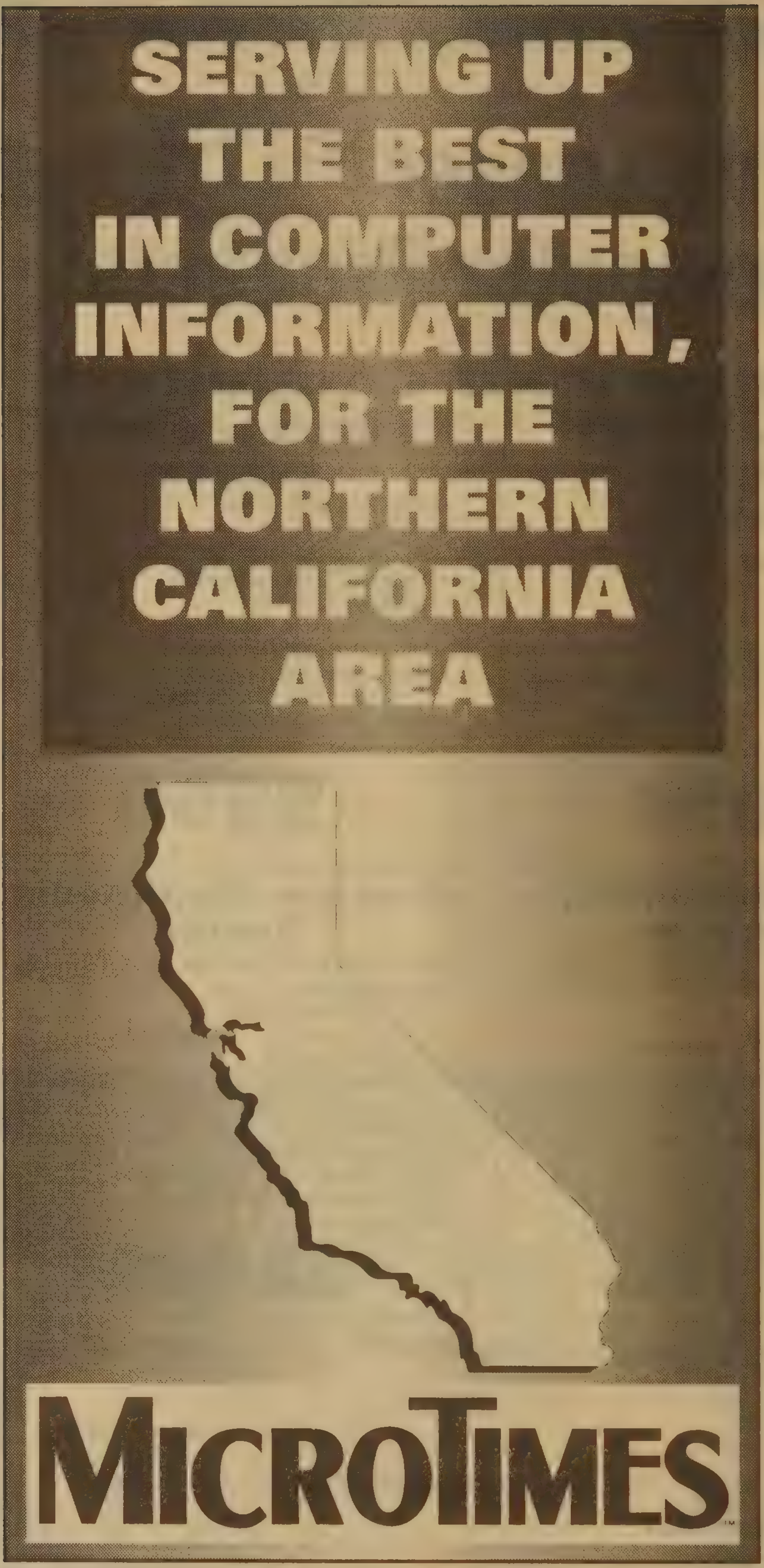
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March 28 How To Build Motivated And Productive Work-Teams Workshop. Monterey. National Seminars Group. Call: 1-800-258-7246.

March 28 Intro To Adobe Illustrator Class. Petaluma. Redwood Computers. Call: (707)795-1700.

March 28 QuarkXPress Class. Palo Alto. MacAcademy. Call: (415)381-7331.

March 28–31 Novell 4.02 System Manager Class. Oakland. California Computer Options. Call: (510)444-5700 ext. 188.

March 29 Microsoft Excel Class. Palo Alto. MacAcademy. Call: (415)381-7331.

March 29–31 Advanced Channels And Strategic Partnerships Workshop. San Jose. Computing Technology Industry Association. Call: (803)781-7188.

March 29–31 Avid: Intro To Media Composer Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

March 29–April 19 Painter Class. San Francisco. Center for Electronic Art. Call: (415)956-6500.

March 30 Fiber Optics Seminar. Santa Clara. Computer College Silicon Valley. Call: (415)325-3648 or email: *ccsv@hooked.net*.

March 30 How To Build Motivated And Productive Work-Teams Workshop. Modesto. National Seminars Group. Call: 1-800-258-7246.

March 30–31 Enabling Networks For Internet Access Seminar. San Jose. Data-Tech Institute. Call: (201)478-5400.

March 30–May 25 Graphics And Human Interface For Multimedia On The PC Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

March 30–May 25 Intro To ScriptX Class. San Francisco. Center for Electronic Art. Call: (415)956-6500.

March 31 How To Build Motivated And Productive Work-Teams Workshop. Sacramento. National Seminars Group. Call: 1-800-258-7246.

March 31 Technical Documentation On CD-ROM Workshop. Santa Clara. UC Extension. Call: (408)748-2950.

March 31 & April 7 Interactive Microsoft Access Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

April

April 3 Complete Online Novell CNA Training. Berkeley. Cyber State University. Call: (510)253-TREK.

April 3 Using Microsoft Windows 3.0 And 3.1 Workshop. Sacramento. SkillPath, Inc. Call: 1-800-873-7545.

April 3 & 10 Mastering QuarkXPress Seminar. Pleasant Hill. Contra Costa County Office of Education. Call: Daniel Pesavento, (510)943-8332.

April 3–May 22 Building A BBS Class. San Francisco. Center for Electronic Art. Call: (415)956-6500.

April 5 Taking QuickTime Online Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

April 5–May 24 Law For Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

April 6 Certified Software Manager Seminar. Sacramento. Software Publishers Association. Call: Becky Howland, (202)452-1600 ext. 367.

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April 6–7 Supporting And Troubleshooting Windows 3.1 Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

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486DX-50/256K VLB	1,220
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Genoa 486DX-50/256K VLB	109	340
Genoa 486DX-40/256K VLB	109	264
Genoa 486DX-33/256 VLB	109	209
486DX2-66/256K VLB+PCI	120	290
486DX-50/256K VLB+PCI	120	350
486DX-40/256K VLB+PCI	120	275
486DX-33/256 VLB+PCI	120	210
486DX2-66/256K VLB	81	255
486DX-50/256K VLB	81	300
486DX-40/256K VLB	81	224
486DX-33/256 VLB	81	181

MEGA SYSTEM

- * MotherBoard w/256K Cache
- * Intel CPU
- * 4MB High Speed RAM
- * 1.44 Teac Floopy Drive
- * 210 MB Fast IDE HD
- * 512 K Trident SVGA
- * 14" SVGA .28 Color Monitor
- * Mini Tower Case w/230W P.S.
- * 101 keyboard
- * Microsoft Compatible Mouse w/ Pad

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Genoa 486DX2-66/256K VLB	920
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Genoa 486DX-33/256 VLB	870
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MAXTOR 540 MB IDE	220
CONNER 210 MB IDE	147
CONNER 340 MB IDE	165
CONNER 420 MB IDE	180
CONNER 540 MB IDE	252
CONNER 540 MB SCSI	285
CONNER 1.2GB IDE	520
QUANTUM 540 MB SCSI	258
QUANTUM 1.0 GB SCSI	545
FUJITSU 525 MB	238

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Mitsumi keyboard	12
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Viper 64 / 2MB VRAM PCI	268
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256 CACHE 1MB/2MB	115/165
64 VLB/PCI 1MB/2MB	119/174
BlackWidow Plus VLB/PCI	160/215
Tarantula 64 2MB/4MB	265/375

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IDE 2FD/2HD w/2S/1P/1G	11
IDE VLB w/I/O	20
I/O w/16550 chip	25
IDE I/O w/16550 chip	32
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Adaptec SCSI 1522	79
Adaptec SCSI 1542 OEM/1542 w/kit	168/245
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COLORADO Tape Backup DJ-20 250 MB	150
Mini Tower Case w/ 230 Watt P.S	34
Desktop AT case w/230 Watt P.S	40
Medium Tower Case w/ 230 Watt P.S	58
Full Tower Case w/ 250 Watt P.S	74
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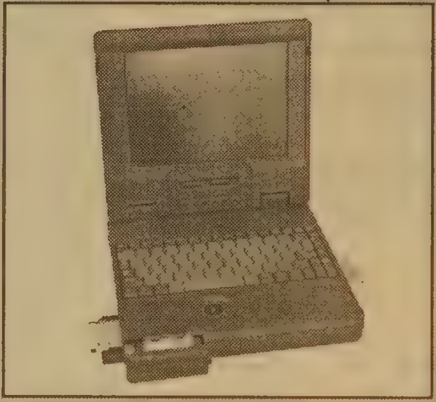

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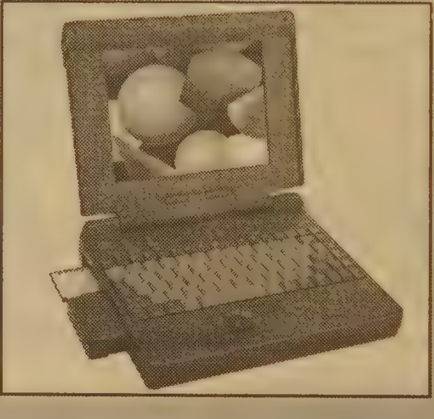

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- 1 Parallel/1 Serial Port
- Built-In Trackball Mouse
- Built-In Speaker & Microphone
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Upgrade To 540 MB	Add 330
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16 MB RAM	Add 835
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PCMCIA Fax Modem 14.4/14.4	199
PCMCIA Ethernet Card Coax/UTP	205
On Site Service 1 Year	35

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Sony 17 5E1600x1200	902
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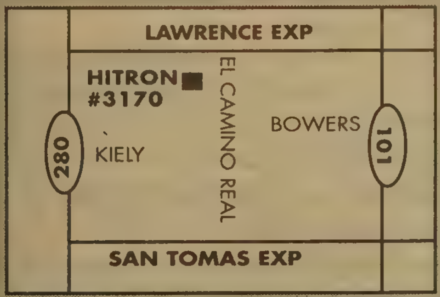

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May 22–23 Networking The Macintosh Seminar. San Jose. Data-Tech Institute. Call: (201)478-5400.

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486SX-40 C	69	159	267	819	839
486SLC2-66/64K C	N/A	132	229	809	829
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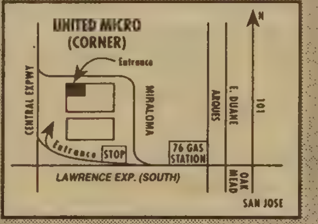

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408

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The Gnome's Guesthouse BBS. (408)448-5705, -5657, -5713, -5655, -6235. 8-N-1, 24 hrs., 4 @ 14,400, 1 @ 9600. Five lines. Chat, CircleMUD, adult areas, FRPs, files, all ages. Free. [Exp. #134.]

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The Meating Place BBS. (408)926-6174. 24 hrs., 14,400. Nine lines. Gay/Bi, adult, email, chat, matchmaker, GIFs, XXX stories. System password: MICRO. [Exp. #134.]

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Nebula BBS. (408)738-4679. 24 hrs., 1200–14,400. Sports games, adventure games, summer PTP league. Sysop: Richard W. Novy. [Exp. #135.]

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The Shareware Exchange! (415)992-4320. 8-N-1, 24 hrs., 9600–14,400. Games, IBM utilities, cracks, messages. Free! Sysop: Christopher Jong. [Exp. #135.]

Symmetrics BBS. (415)382-6679. 8-N-1, 24 hrs., 1200–14,400. Internet information. [Exp. #134.]

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Wetware Diversions Public UNIX. (415)826-0397. 8-N-1, 24 hrs., 1200/2400. Eight lines. Full Usenet news. Sysop: Eric Swanson (editor@wet.UUCP). [Exp. #134.]

Window World BBS. (415)931-0649. 24 hrs. For people who use Windows-type software; info, shareware, chat. Sysop: Bob Cram. [Exp. #134.]

510

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The City Of Night BBS. (510)521-7827. 8-N-1, 24 hrs., 300–14,400. Teleconference, Internet mail, libraries, for young adults. Free. [Exp. #136.]

Club California. (510)724-5755. 24 hrs., 19,200. 15 lines. Internet mail and news, Internet matchmaking, conferencing. 18 and over. Sysops: Rand Al' Thor and Joseph. [Exp. #134.]

Computer Addiction. (510)278-2287. 8-N-1, 6–10 pm, 2400–14,400. We have shareware, networks, adult, online programs, and much more. [Exp. #136.]

Dragonhead BBS. (510)417-8718. 24 hrs. Door games, local and echo msg. areas, CD-ROM files, Internet access. Free. [Exp. #134.]

Dr. Jack's Thing. (510)689-4022. 8-N-1, 24 hrs., 28,800. Eight lines. Thousands of files, Asian and Japanese GIFs, games. Free/ratio/subscription. [Exp. #135.]

GMV-BBS. (510)294-9052. 8-N-1; 24 hrs., 300–9600. Multiline. Teleconference, private chat, email, SIGs, games; Amiga, IBM, Mac files. Fee. [Exp. #136.]

Gold Diggers BBS. (510)568-7807,,,23,23 (must include ,,,23,23 to get BBS). 24 hrs., 2400–14,400. IBM, Atari ST, Amiga, Mac; files, door games, messages. $10 per year. Sysop: Harry Goldberg. [Exp. #136.]

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Hi-Lux BBS. (510)233-7859. 8-N-1, 14,400. We're back! Dedicated to computer graphics and animation. Files! Messages! Free. [Exp. #134.]

K 3 & Company. (510)370-3719. A private resume listing service. ASCII only, please. [Exp. #136.]

Knight Court BBS. (510)946-1049, 933-6126, 525-5874. Tons of online games; chat lines, Internet database; Games Central! Free. [Exp. #136.]

LiverGulch BBS. (510)606-9846. 24 hrs., 28,800. Four lines. New! Windows-only, multitasking BBS. Science, technology, NASA GIFs, Windows shareware. Sysop: Ken Marsh. [Exp. #136.]

Maddog! BBS. (510)895-8089, 483-0203. 24 hrs., 2400–28,800. 10 CD-ROMs, 60,000+ files, online games, FidoNet, HotNet, sports. Free/Fee. Sysop: Troy Earp. [Exp. #136.]

mediacom—USA BBS. (510)521-5757. 8-N-1, 24 hrs., 2400–28,800. Support and registration site for terminal program TERMINATE and Archiver RAR. Free access. [Exp. #134.]

Orion. (510)447-1060. 28,800. Two nodes. Space/science/computers related, 2GB d/l files, msg. base. Sysop: Shaun Coleman. [Exp. #134.]

Otoko Empire BBS. (510)370-6253. 24 hrs., 1200–14,400. Male GIFs: large galleries of Asian, Black, and Latino files. Adult reg. req. Free/pay. [Exp. #134.]

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Terminal One BBS. (510)673-9217. 28,800. Four lines. Files, games; Free Internet email, newsgroups. UUCP accounts available. [Exp. #136.]

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The VisualAge BBS. (510)685-9585. 24 hrs., 2400–14,400. Multinode. Local echomail nets, Internet coming soon!, doors, three CD-ROMs. Free/pay. Sysop: David R. Afana. [Exp. #134.]

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X-Philes BBS. (916)549-3185. 8-N-1, 14,400. X Files stories, GIFs, JPGs related to the TV show; Vetlink. No fee. Sysop: Jon Mankowski. [Exp. #135.]

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USER GROUPS

AMIGA

TOGA—The Other Group Of Amigoids. Meetings: 4th Sat. (Sun. in April), 12:30 pm, Milpitas Community Library Meeting Room, 40 N. Milpitas Blvd., Milpitas. An informal group to share ideas, PD software, and information. Call: Lawrence Brown, (408)744-0162; Randy Abel, (408)356-9405. [Exp. #138.]

APPLE

SPC Apple User Group. Meetings: 2nd Tues., 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Steveson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: Dean Fearn, (510)881-9160. [Exp. #139.]

ATARI

ABACUS—Atari Bay Area Computer Users Society. Meetings: 1st Sat. 1:00 pm, Potrero Branch Public Library, 2nd floor, 1616 20th St., San Francisco. Supporting all Atari computers and video games. PD software, MIDI, applications. Call: Roger Sinasohn, (415)469-7924. [Exp. #139.]

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Call: Robbie, (510)797-5636. [Exp. #138.]

CAD

BMUG CAD SIG. Meetings: last Wed., 6:00 pm, Academy of Art College, 79 New Montgomery, San Francisco. Environmental design/drafting. Call: (510)549-BMUG. [Exp. #137.]

Sonoma County AutoCAD Users Group. Meetings: 3rd Wed., 6:30 pm, Piner High School, Rm. H-83, 1700 Fulton Rd., Santa Rosa. Call: John Weitzel, (707)525-8147. [Exp. #137.]

COMMODORE

C=HUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00 pm, Palma Ceia Park. (510)531-3734. [Exp. #139.]

CWEST C64/128. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission (near Ocean), San Francisco. Call: (415)626-9946. [Exp. #139.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Contra Costa Water District Anteroom, 1331 Concord Ave., Concord. Call: (510)689-3224. [Exp. #137.]

DESKTOP PUBLISHING

BMUG Desktop Publishing And Design SIG. Call: Les Cowan, (415)641-6033. [Exp. #138.]

CorelDRAW Ventura Users Group. Meetings: 1st Mon. (except when holiday, then 2nd), Varian Associates, 3075 Hansen, Palo Alto (March meeting at Santa Clara Marriott). $2/person. Call: Rick Altman, (408)252-5448. [Exp. #139.]

Redwood Computers Desktop Publishing Training Center. Classes in programs such as Photoshop, Illustrator, QuarkXPress, PageMaker, CorelDraw. Call: (707)795-1700. [Exp. #139.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor—near 1st and Mission, San Francisco. Demonstrations, technical support, informal discussion. Call: (415)885-6631. [Exp. #139.]

Diablo Valley User Group—DVPC. Meetings: 1st Thurs., 7:30 pm, Bank of America, Bldg. B, Clayton Rd. at Galindo, Walnut Creek. SIGs include Windows, Paradox, Beginner's, Visual Basic, education/entertainment, and more. Call: (510)943-1367. [Exp. #134.]

EastBay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Montclair. All microcomputers, MS-DOS, CP/M. Call: (510)653-2627. [Exp. #139.]

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Call: (415)454-5556. [Exp. #138.]

Napa Valley PC Users Group. Meetings: 2nd Wed., 7:30 pm, Napa High School Lecture Hall, 2475 Jefferson St., Napa. Call: Lee Schwab, (707)257-2675. [Exp. #138.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, Meiklejohn Hall, Room 2002, CSU Hayward. Share knowledge and PD/shareware, network of BBSes, mentor assistance, SIGs. Swap starts at 7:00. Call: (510)538-2449 or 276-6450. [Exp. #138.]

Peninsula Computer Club. Meetings: 2nd Thurs., 7:30 pm, Rec Room, 222 Laurel St., San Carlos. DOS and CP/M libraries. Call: (415)593-9981. BBS (415)571-9259. [Exp. #138.]

San Francisco Business Computers. Meetings: 4th Tues., 5:30 pm. 110 Pacific #153, San Francisco. For those who use computers in business. Visitors $10. Call: Jordan Rosenberg, (415)788-5338. MCI Mail: 425-1545. [Exp. #138.]

San Francisco Computer Society. Meetings: 4th Mon., 7:00 pm, Presbyterian Church, 1329 7th Ave., San Francisco. CPM and DOS, novices welcome. Call: Bob Forsberg, (415)885-6202. [Exp. #138.]

San Francisco PC Users Group. Meetings: 3rd Tues., 6:15 pm SIGs, 7:30 pm General Meeting. St. Mary's Conference Center, 1111 Gough St., San Francisco. Call: (415)346-2644, events; Kendall Callas, (415)821-1310; Loyd Cribs, (415)751-5219. [Exp. #138.]

SEF Business Operations SIG. Meetings: 1st Tues., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. A special interest group of the Software Entrepreneurs' Forum. Call: Mike Schmit, (408)244-6826. [Exp. #139.]

SEF International Software SIG. Meetings: 3rd Mon., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. A special interest group of the Software Entrepreneurs' Forum. Call: Charlie Pfefferkorn, (408)923-7570. [Exp. #139.]

South Bay WordPerfect User Group. Meetings: 4th Tues., Saratoga Community Library, Fruitvale and Saratoga Ave., Saratoga. WordPerfect product presentations and education. Mainly Windows. Free. Call: Scott Maiden, (408)253-4591. [Exp. #139.]

Stanford/Palo Alto PC User's Group. Meetings: last Wed., 7:30 pm, Varian, 3075 Hansen Way (off Page Mil Road), Bldg. 7, Palo Alto. Call: (415)952-5632. [Exp. #138.]

INTERNET

BMUG Internet SIG. Meetings: 2nd and 4th Weds., 7:00 pm, BMUG office, 2055 Center St., Berkeley. Accessing the Internet through World Wide Web using the Macintosh. Email: *dan_meriwether* or *susan_adrian @bmug.org*. [Exp. #137.]

Online And Interactive SIG. Meetings: 3rd Tues., 6:30 pm, usually at Software Publishing Corp., Bldg. 3, 3165 Kifer Rd., Sunnyvale. SIG of the Silicon Valley chapter of the Society for Technical Communication. Call: Charly Rhoades, (408)379-7000 ext. 1414 or *charly@hal.com* . [Exp. #137.]

SEF Internet SIG. Meetings: 2nd Wed., 7:30 pm, Sun Microsystems, 2750 Coast Ave., Bldg. 6, Mountain View. $10 for nonmembers. Call: (415)390-9477. [Exp. #139.]

LEGAL

BMUG Law SIG/ Law SIG South. Meetings: irregular. Call: Randy, (916)661-2280 or *rbs@aol.com* . [Exp. #137.]

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed., odd-numbered months, noon, SF Bar Assoc. Boardroom, 7th Fl., 685 Market St. Brown bag meetings. Call: (415)421-5650. [Exp. #137.]

MACINTOSH

Association Of A32 Users. Meetings: 2nd Sat., 10:00 am, Sunnyvale Community Center Arboretum, 550 E. Remington Ave. (near corner of El Camino and Fair Oaks). Q&A session; guest speakers and vendor demonstrations; shareware, freeware, and PD software disks. Call: (408)263-0398. [Exp. #138.]

BMUG—Berkeley Macintosh User Group. Meetings: every Thurs., 6:00 pm, Warren Hall, Rm. 22, UC Berkeley campus. Call: (510)549-BMUG. [Exp. #137.]

BMUG LesBiGay SIG. Meetings: 3rd Sun., 6:00 pm, BMUG office, 2055 Center St., Berkeley. Call: see the LesBiGay conference on Planet BMUG (bmug.org). [Exp. #137.]

BMUG West. Meetings: last Mon., 6:30 pm, San Francisco Exploratorium. Call: (510)549-BMUG. [Exp. #137.]

Diablo Valley Macintosh User Group (DVMUG). Meetings: 3rd Tues., 7:00 pm, Bancroft School, 2200 Parish Dr., Walnut Creek. Get together with Mac and Performa users. Enjoyable SIG meetings. Call: Tom Bacon, (510)945-4548. [Exp. #138.]

International Macintosh Users Group (IMUG). Meetings: 3rd Thurs., 7:00 pm, Apple Computer, R&D Campus, 1 Infinite Loop, Cupertino. A forum for multilingual/multiscript computing. Call: Roger Sherman, (415)859-5146. [Exp. #139.]

P.I.E. Macintosh Special Interest Group. Meetings: 2nd Thurs., 7:15 pm, Lynbrook High School, Rm. 32, 1280 Johnson Ave. (btw. Bolinger & Prospect), San Jose. Call: Mickey Schumacher, (408)993-9363. [Exp. #139.]

SEF Macintosh SIG. Meetings: 3rd Tues., 7:00 pm, Apple Auditorium, 4 Infinite Loop, Cupertino. Sponsored by Software Entrepreneurs' Forum. $10 for non-SEF members. Call: Jeff Cherniss, (408)358-5150. [Exp. #139.]

SMUG (Stanford Palo Alto Macintosh User's Group). Meetings: 1st Mon., 7:00 pm, Syntex Conference Center, 3401 Hillview Ave., Palo Alto. Call: (415)328-4933. [Exp. #137.]

SPC Apple User Group. Meetings: 2nd Tues., 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Steveson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: Dean Fearn, (510)881-9160. [Exp. #139.]

MARKETING

SEF Marketing SIG. Meetings: 4th Thurs., 7:00 pm, Cubberley Community Center, Rm. H-1, 4000 Middlefield Rd., Palo Alto. A special interest group of the Software Entrepreneurs' Forum. Call: Bill Ryan, (415)615-7906. [Exp. #139.]

MISCELLANEOUS

California Genealogical Society SIG. Meetings: 2nd Sat. odd months, CGS Library, 300 Brannan St., 4th Fl., San Francisco. All makes, models, and software welcome. Call: Dave Wilma, (415)777-9936 or *DaveW50789@aol.com* . [Exp. #134.]

MULTIMEDIA

Joe's Digital Diner. Meetings: every other week, 5:30 interactive happy hour, 7:00 pm dinner, 8:00 pm showcase, 3435 Army St., Ste. 222 (at Valencia), San Francisco. An evening mixing home cooking, six multimedia stations, and a special presentation on new media, Internet, etc. Call: (415)824-9394. [Exp. #137.]

Macromedia User Group. Meetings: 1st Tues. (except Jan.), 6:00 pm, 600 Townsend St. at 7th, San Francisco. For multimedia developers of all levels who use Macromedia products. $5. Call: (415)252-2295. [Exp. #137.]

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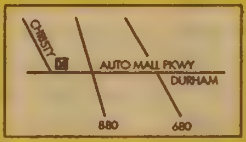

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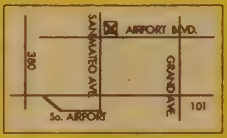

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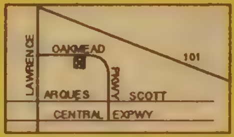

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USER GROUPS cont.

ings: 1st Thurs., 7:00 pm, Center for Software Development, 111 W. St. John St., Suite 200, downtown San Jose. SIG of Software Entrepreneurs' Forum. Call: Ralph Gilman, (408)746-0551. [Exp. #139.]

MUSIC

Computer Music Group. New group forming to explore computer music beyond MIDI—UNIX, mathematical modeling, networks, multiprocessing, etc. Call: Bob, (415)592-6993. [Exp. #138.]

NETWORKING

Apple Network Manager's Association. Meetings: 3rd Thurs., 5:30 pm, Syntex Laboratories, Palo Alto. A forum for discussing problems and solutions associated with managing mixed environments with AppleTalk networks. Call: Bill Woodcock, (510)843-6369, email *woody@zocalo.com* for directions. [Exp. #137.]

BMUG Networking SIG. Meetings: 4th Tues., 7:00 pm, BMUG office, 2055 Center St., Berkeley. Call: James, (510)233-7151. [Exp. #137.]

Networking Windows SIG. Meetings: 3rd Wed., El Cerrito. For users of Windows for Workgroups, 95, NT, Advanced Server. Call: (510)528-9895. [Exp. #134.]

SEF Client/Server SIG. Meetings: 4th Tues., 7:00 pm, Cubberly Community Ctr., Rm. H-1, 4000 Middlefield Rd., Palo Alto. A special interest group of the Software Entrepreneurs' Forum. Call: Patrick O'Brien, (415)726-4664. [Exp. #139.]

NOVELL

South Bay NetWare Users Group. Meetings: monthly, 6:00 pm, 890 Ross Dr., Sunnyvale. Call: Allan Hurst, (415)525-4567 or *allanh@spectrum.us.com* . [Exp. #134.]

OS/2

OS/2 Bay Area User Group. Meetings: 4th Mon., 7:30 pm, Stanford Linear Accelerator Center Auditorium, 2575 Sand Hill Rd., Menlo Park. For anyone interested in OS/2. Presentations, demonstrations, question and answer session. Call: (510)945-7565 ex. 611. [Exp. #138.]

PEN

SEF Mobile Computing SIG. Meetings: 4th Wed., 7:00 pm, Cubberley Community Center, Rm. H-1, 4000 Middlefield Rd., Palo Alto. A special interest group of the Software Entrepreneurs' Forum. Call: Bill McAlpine, (415)348-2257. [Exp. #139.]

Stanford Newton User Group. Meetings: 2nd & 4th Tues., 7:00 pm, Printer's Inc. Bookstore Cafe, 310 California Ave., Palo Alto. Call: Flash Sheridan, (415)462-9203 or *FlaSheridn@rahul.net* . [Exp. #139.]

PROGRAMMING LANGUAGES

BMUG Forth SIG. Meetings: 2nd Sat., 12:00 pm, BMUG office, 2055 Center St., Berkeley. Forth for beginners, 12 noon; introductions, 1:00 pm; talks and demos 1:30–5:00 pm. Call: Leonard, (510)376-5241. [Exp. #137.]

BMUG Programmers' SIG. Meetings: alternate Weds., 7:00 pm, BMUG office, 2055 Center St., Berkeley. Mac Toolbox, C, and Pascal. Call: (510)549-BMUG. [Exp. #137.]

SEF C/C++ SIG. Meetings: 4th Fri., 6:15 pm, UC Santa Cruz Extension, 3120 De La Cruz Blvd. (Trimble at 101), Santa Clara. A new special interest group of the Software Entrepreneurs' Forum. Call: Marian Corcoran, *mcorcora@ix.netcom.com* . [Exp. #139.]

SEF Visual BASIC SIG. Meetings: 2nd Thurs., 7:00 pm, Cubberley Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. Sponsored by Software Entrepreneurs' Forum. Call: Allan Colby, (415)851-4567. [Exp. #139.]

Silicon Valley Forth Interest Group. Meetings: 4th Sat., 10:00 am–5:00 pm, 230 Lincoln Centre Dr., Foster City. Call: Dr. C.H. Ting, (415)638-5669 (w), 571-7639 (h). [Exp. #137.]

PROJECT MANAGEMENT

Microsoft Project Users Group. Meetings: 3rd Tues., alternates between San Jose and Foster City. Q&A, speakers, product demos, and other topics related to Microsoft Project and project management. Call: Jim Spiller, (707)425-2484. [Exp. #137.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Call: Fred, (510)530-8335. [Exp. #138.]

UNIX

SEF UniForum Open Systems SIG. Meetings: 2nd Tues., 7:00 pm, DEC Auditorium, 130 Lytton Ave., Palo Alto. A special interest group of the Software Entrepreneurs' Forum. Call: George Bosworth, (415)851-3304. [Exp. #139.]

VIDEO TOASTER

Silicon Valley Video Toaster Users Group. Meetings: last Thurs., 7:00 pm, HT Electronics, 275 N. Mathilda Ave., Sunnyvale. Special guests, equipment demos, hands-on workshops, info/tips on Toaster 4000 and System 3.1. Call: Andrew Timmins, (408)243-9233 (eve.). [Exp. #134.]

WINDOWS

BMUG Windows SIG. Meetings: 1st Tues., 6:30 pm, BMUG office, 2055 Center St., Berkeley. Call: Robin, (510)527-8993. [Exp. #137.]

SEF Windows SIG. Meetings: 1st Wed., 6:30 pm, Cubberley Community Center, Room H-1, 4000 Middlefield Rd., Palo Alto. SIG of the Software Entrepreneurs' Forum. $15 for nonmembers. Call: Fran Finnegan, (415)288-4400. [Exp. #139.]

WIRELESS

SEF Wireless SIG. Meetings: 1st Mon., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. A special interest group of the Software Entrepreneurs' Forum. Call: Patrick Glenn, (408)448-3844. [Exp. #139.]

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US Mail should go to: MicroTimes User Group, 3470 Buskirk Ave., Pleasant Hill, CA 94523. **Faxes** are welcome at (510)934-3958. **Email** can be sent to: *microx@well.sf.ca.us*, or *MCI:MICROTIMES.*

ASSOCIATIONS

The Assembler Multitude. Meetings: every 3rd week on Mon., 7:30 pm, University Lutheran Church, 1611 Stanford Ave., Palo Alto. An open discussion of new technical developments in many fields and how they relate to nanotechnology. Call: (408)974-6241. [Exp. #134.]

Association For Systems Management & Data Processing Management Association. Meetings: 1st Wed., 5:30 pm, Mountain View. Networking, dinner, speaker; $20 to $25. Call: (408)727-3906. [Exp. #139.]

Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. Call: (415)979-8450. [Exp. #139.]

Bay Area Video Coalition. A place for independent videomakers to communicate with each other and the larger media community. $10 for nonmembers. Call: Anne Etheridge, (415)861-3282. [Exp. #137.]

Black Data Processing Associates, Silicon Valley Chapter. Meetings: 4th Thursday, 6:30 pm, Amdahl Corp., Bldg. H, 1240 E. Arques Ave., Sunnyvale. National network of DP professionals, educators, students, and vendor reps. Call: Willie Mackey, (408)280-7624. [Exp. #139.]

Business Marketing Association. Meetings: 4th Wed., 11:30 am, Marriott Hotel on Great America Pkwy., Santa Clara. A professional organization for business-to-business marketing professionals; CBC certification, topical programs, seminars, job bank. Call: (408)365-9815. [Exp. #139.]

Center For Software Development. 111 West Saint John, Ste. 200, San Jose. A nonprofit corporation whose goal is to help software businesses grow and bring better products to market more rapidly. Call: (408)494-8378. [Exp. #139.]

Computer Professionals For Social Responsibility/Berkeley Chapter. Meetings: last Sun., 3:00 pm, BMUG Offices, 2055 Center St., Berkeley. Meetings are open to the public and free. Call: Karen, (510)987-0567 or *cpsr-berkeley@cpsr.org.* [Exp. #137.]

Independent Computer Consultants Association, Northern California Chapter. Meetings: 2nd Tues., 6:00 pm, The City Club, 155 Sansome St., San Francisco. Open discussion, questions and answers.' Call: (415)399-0305. [Exp. #139.]

San Francisco ACM SIGGRAPH. Meetings: 3rd Fri., 8:00 pm, Computer Arts Institute, 310 Townsend St., Suite 230, San Francisco. Computer graphics and animation across a variety of industries including film, multimedia, and video games. Call: (415)642-9605. [Exp. #138.]

Society For Technical Communication, San Francisco Chapter. Meetings: 3rd Wed., 6:00, program at 6:45 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. Job listings, guest speakers, technical publications competition, newsletter. Call: (415)985-7121. [Exp. #139.]

Society For Technical Communication, Silicon Valley Chapter. Meetings: 3rd or 4th Thurs., 5:30 pm refreshments, 6:30 pm dinner, 7:15 dessert. Sunnyvale Hilton, 1250 Lakeside Dr. (off Lawrence Expressway at 101). Guest speakers, special interest groups, networking, job listings, newsletter. Call: (408)737-9426. [Exp. #137.]

Software Entrepreneurs' Forum. Meetings: 3rd Wed., 6:30 pm, Elk's Lodge, 4249 El Camino Real, Palo Alto. Industry association dedicated to software developers and entrepreneurs, offering information and education on all facets of the software industry. Call: Barbara Cass, (415)854-7219. [Exp. #139.]

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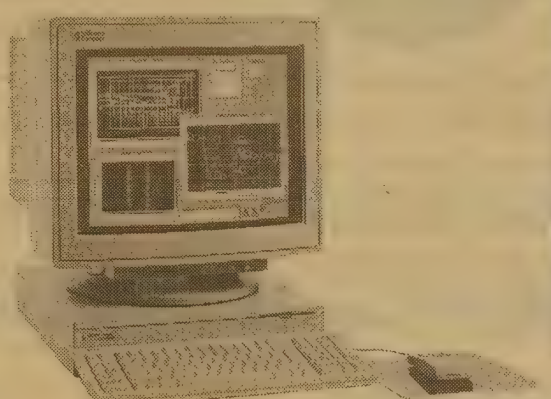

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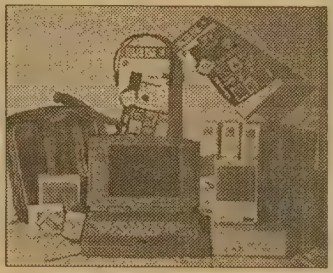

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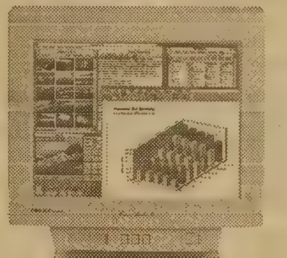

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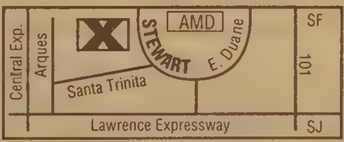

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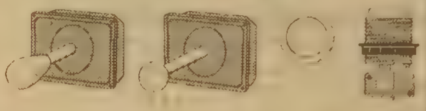

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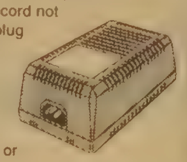

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- Sorry, we don't have media yet, but we're looking!

HSC# 15209 $19.00

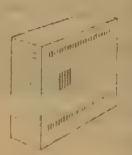
12VDC Mega-power!

- LH Research Super Mite switching power supply
- Provides 12 Volts DC @ 84 Amps!
- Model #SM11-2/115
- Switching supply, so don't run without a load!
- 115 VAC input, 2000 VA, has 5" fan
- Used, 30-day warranty (void if run without 50% load)

HSC# 15185 $89.95

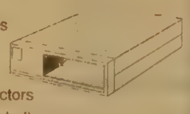
Disk Drive Case x 2!

- Upright style case for 3.5" hard drives
- Includes power supply, fan
- 25-pin D-conn can be removed, enlarge hole for your connector
- 2.25" x 6.25" x 7.25" compact size
- Uses IEC power cord (not included)
- Power & drive activity LED's



❖ ❖ ❖

- Low-profile case for 5.25" drives
- Perfect for CD-ROM drives
- 9.5" x 2.5" x 10.5" overall size
- 50-pin SCSI daisy-chain connectors
- Uses IEC power cord (not included)
- Internal audio cable, RCA jacks on back
- Features 40W power supply, fan, SCSI ID switch



HSC# 15170 Upright 3.5" Drive Case $39.95
HSC# 15243 Low-Profile 5.25" Drive Case $39.95

Network Cable Special

- Dual Workstation Installation Kit
- Two high-quality 10' RG-58 coax BNC cables
- Two BNC tee's
- Two BNC 50Ω terminators
- One BNC coupler
- Enough to cable two Thin-net workstations to the wall-plate distribution point

HSC# 14967 $9.95

Rechargeable Battery

- 4 "D" Cell-size - 4.8VDC 3500 mAH/5hr NiCd
- Sturdy steel case with mounting ears, pin jacks
- Charge regulation circuitry, .5 A Fuse
- Case size 9" x 4.25" x 2.25" (batteries can be unplugged and removed if desired)
- Unused, 1992 date codes (still good)

HSC# 15067 $4.95

Laser Diode

- Toshiba TOLD-9200
- 3 to 4 mW at only 75 - 100mA of current!
- 670nm wavelength (visible red)
- Brand new prime
- Uncollimated, needs current regulation
- Application sheet with suggested circuit supplied

HSC# 15163 $17.95

CD-ROM Starter Kit!

- Sony CDU-535 internal CD-ROM Drive (uses caddies)
- Working drive pulled from multimedia systems
- Single-speed half-height drive, Sony 40-pin interface
- Front earphone/speaker jack, rear audio connection
- New controller card, cable included (no software, caddy)
- 90-day warranty

HSC# 15191 $49.95

Back-up Tape Drive

- Colorado Memory Systems "Jumbo" model drive
- 120 Megabyte external tape-backup unit
- Requires software (we don't have it, sorry!)
- Interfaces like a floppy drive (37 pin connector on back)
- 6.75" x 2.5" x 10" case with power supply, no IEC cord
- 90-day warranty

HSC# 15171 $59.95

Computer Parts Specials!

A. Eight-bit VGA/EGA Video Display Card
- 256K VRAM, non-upgradeable, may be used

HSC# 15059 $19.95

B. IDE Hard/Floppy Controller, high quality Maxtor brand
- New 16-bit card in anti-static bag

HSC#15237 $4.95

C. Slim-line AT case, new, no power supply
- Three 3 5" drive bays, 90° slot expander, hardware

HSC# 15196 $14.95

External Floppy Drive

- 5.25" half-height 360K floppy drive, beige face
- Sturdy beige enclosure with power supply
- IEC Power cord, 37-pin D cable included
- Case size 6" x 2.25" x 12.5" (great for mounting other external drives, i.e. CD-ROM, etc.)
- New in box, with manual
- 90-day warranty

HSC# 15138 $24.95

Transaction Terminal

- Used VeriFone Tranz 240 terminals
- Vacuum-fluorescent alphanumeric 16-character readout
- 12-key keypad ♦ Z-80 proc. ♦ CMOS program EPROM
- Mag-stripe read-head (may have been disconnected)
- Communicates over an RS-485 line
- Needs 8.5 VAC adaptor
- Quantity discounts available

HSC# 14848 $19.95

New! QRP Kit Specials

- Popular QRP ham transceiver kits by Oak Hills Research
- 1.5 Watt (Sprint) & 3 Watt (Explorer) models
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Sprint Transceiver Kit $89.95
Explorer Transceiver Kit $129.95

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- Historically accurate depiction of key WW II battle
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- ⇒ Adaptec 2940Wide SCSI II PCI
- ⇒ ATI WinTurbo 64 w/4MB VRAM
- ⇒ ExView 17" Monitor .26 dpi 1600x1280 @60hz NI Digital Control
- ⇒ TEAC 1.44 3.5" Floppy Drive
- ⇒ Medium Tower Case
- ⇒ Focus 2001 Keyboard
- ⇒ Microsoft Mouse
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

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- ⇒ Intel Plato PCI Motherboard
- ⇒ Intel Pentium 90 CPU
- ⇒ 256K Cache - optional 512K cache
- ⇒ 16MB RAM - 72PIN 70ns SIMMS
- ⇒ Conner/Quantum 540MB IDE HD
- ⇒ ATI Graphics WinTurbo 64 w/2MB VRAM call for 4MB option
- ⇒ ExView 15" Monitor .28dpi 1280x1024 @60hz NI Digital Control
- ⇒ TEAC 1.44 3.5" Floppy Drive
- ⇒ Medium Tower Case
- ⇒ Focus 2001 Keyboard
- ⇒ Microsoft Mouse
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ICS P5-60 I

- ⇒ Intel Mercury PCI Motherboard
- ⇒ Intel Pentium 60 CPU
- ⇒ 256K Cache - optional 512K cache
- ⇒ 8MB RAM - 72PIN 70ns SIMMS
- ⇒ Conner/Quantum 420MB IDE HD
- ⇒ 64Bit Accelerator w/2MB DRAM Cirrus Logic 5434 onboard PCI
- ⇒ ExView 14" Monitor 28dpi 1280x768 @60hz NI Digital Control
- ⇒ TEAC 1.44 3.5" Floppy Drive
- ⇒ Medium Tower Case
- ⇒ Focus 2001 Keyboard
- ⇒ Microsoft Mouse
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

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- ⇒ Intel Hendix PCI Motherboard
- ⇒ Intel Pentium 60 CPU
- ⇒ 256K Cache - optional 512K cache
- ⇒ 8MB RAM - 72PIN 70ns SIMMS
- ⇒ Conner/Quantum 420MB IDE HD
- ⇒ 64Bit Accelerator w/2MB DRAM Cirrus Logic 5434 onboard PCI
- ⇒ ExView 14" Monitor 28dpi 1024X768 @60hz NI Digital Control
- ⇒ TEAC 1.44 3.5" Floppy Drive
- ⇒ Medium Tower Case
- ⇒ Focus 2001 Keyboard/Microsoft Mouse
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP
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- ⇒ 40W Powered Speakers

$1939

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- ⇒ 486 PCI/VLB Motherboard
- ⇒ Intel DX2/66 (call for DX2/80 & DX4)
- ⇒ 256K Cache - optional 512K cache
- ⇒ 8MB RAM - 72PIN 70ns SIMMS
- ⇒ Conner/Quantum 540MB IDE HD
- ⇒ ATI MACH 32 w/2MB DRAM
- ⇒ ExView 15" SVGA Monitor .28 dpi 1280x1024 @60hz NI Digital Control
- ⇒ TEAC 1.44 3.5" Floppy Drive
- ⇒ Mini Tower Case
- ⇒ Focus 2001 Keyboard
- ⇒ Microsoft Mouse
- ⇒ 2 IDE, 2 FDD, 2 I/O, 1 Parallel

$1569

ICS 486 II

- ⇒ 486 VLB Motherboard
- ⇒ Intel DX2/66 (call for DX2/80 & DX4)
- ⇒ 256K Cache - optional 512K cache
- ⇒ 8MB RAM - 72PIN 70ns SIMMS
- ⇒ Conner/Quantum 420MB IDE HD
- ⇒ Local Bus S3 805 w/1MB DRAM
- ⇒ ExView 14" SVGA Monitor .28 dpi 1024x768 @60hz NI Digital Control
- ⇒ TEAC 1.44 3.5" Floppy Drive
- ⇒ Mini Tower Case
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ICS 486 III

- ⇒ 486 VLB Motherboard
- ⇒ Intel 486 SX 33 (Upgradeable!)
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- ⇒ 4MB RAM - 72PIN 70ns SIMMS
- ⇒ Conner/Quantum 420MB IDE HD
- ⇒ Local Bus S3 805 w/1MB DRAM
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- ⇒ TEAC 1.44 3.5" Floppy Drive
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- ⇒ 16MB RAM - 72PIN 70ns SIMMS
- ⇒ Fujitsu 1GB Fast/Wide SCSI II
- ⇒ Adaptec 2940Wide SCSI II PCI
- ⇒ TEAC 1.44 3.5" Floppy Drive
- ⇒ Medium Tower Case
- ⇒ Focus 2001 Keyboard
- ⇒ Microsoft Mouse
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

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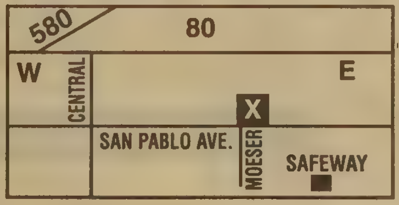

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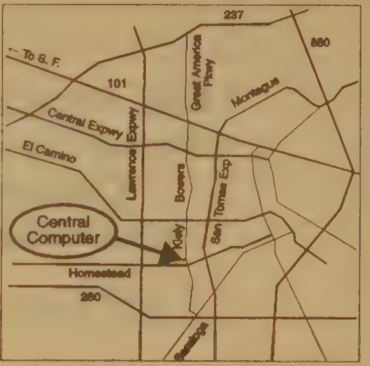

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Sound Blaster Encarta Kit	245
Sound Blaster Multimedia Office Kit	*(499)
Video Blaster FS-200 / Wave Blaster	315/189
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DIAMOND	
1000 Multimedia Kit w. 30 titles	319
4000 4 Speed Multimedia Kit w. 11 titles	359
5000 4 Speed Multimedia Kit w. 30 titles	449
MEDIA VISION	
MV1100 Deluxe Multimedia Kit 2X Int	229
MV0400SE Premium Portable Ext	299
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MV4100 Premium Deluxe Kit	499
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PLEXTOR	
PX-43CH 220ms, 600Kb/s, 4 Speed Int	399
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EP-88 Magnetically Shielded (80W)	42
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Baby Tower w. 200W Power	59
Mid Tower w. 230W Power	75
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- 3 half ht or 1 full & half ht for PC, 60W	109
- 3 half ht or 1 full & 1 half ht for Mac, w.cables	129
Antec CD Rom or 5.25" External Casing	65
Antec 3.5" HD External Casing	59

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VL3208 EIDE w. 4HD/ 2FD/ 16550/ VLB	59
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ACCULOGIC IDE PCI Controller	49
BOCA IDE w. I/O (2S 1P)	49
IDE w. I/O (2S 1P) / IDE w. I/O VLB	19.50/29
SC200 SCSI-2 PCI (w. NCR chips)	85

4. CPU & MATH CO

CPU :	
AMD	
386 DX-40	59
486-DX2-66	179
486-DX2-80	169
CYRIX	
486 DX-33	119
INTEL	
386 DX-33	45
386 DX-40	45
486 DX-33	129
486-DX-50	269
486 DX2-50	179
486-DX2-66	209
486 DX4-100	299
Pentium 586-60 / 66	409/499
Pentium 586-90 / 100	669/759
Math Co Processor :	
CYRIX	
83D87 - 33	39
INTEL	
387 DX (for 16/ 20/ 25/ 33 MHz)	85
387 SX (for 16/ 20/ 25/ 33 MHz)	79
ULSI	
83D87 - 40	39
OTHERS	
Cooling Fan for 486 CPU	7.50
Cooling Fan for Pentium 586	15

*(price) .... special, while supplies last

5. DIGITIZER

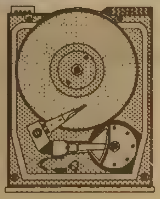
MMASKETCH

12 x 12, 4 or 16 button	269
12 x 18, 4 or 16 button	549

ACOM

-0608R 6 x 8, w. UP-201 Pressure Stylus	345
-1212RP 12 x 12, w. UP-201 Pres. Stylus	529
-0405R 4 x 5, Art Pad	155
-0405R with Fractal Dabler	185

6. DRIVE



QUEST (MITAC, removable)

MB 3.5" w. cartridge, Int	349
MB 5.25" w. cartridge for Mac, Ext.	429
5MB 3.5" w. cart., IDE host adapter	279
5MB 3.5" w. cart., printer port for PC, Ext.	369
5MB 3.5" w. cart., SCSI for Mac, Ext.	389
0MB 3.5" w. cart., SCSI Ext	515
0MB 3.5" w. cartridge, IDE, Int	465
0MB 3.5" w. cartridge, SCSI, Ext.	515
0MB 3.5" w. cart., printer port for PC, Ext.	515
5MB Cartridge / 270MB Cartridge	59/69
quest 270MB 3.5" w. cart., IDE Int	489
quest 270MB 3.5" w. cart., SCSI Ext	539

OPPY DRIVES :

AC

MB 5.25"	46
4MB 3.5" / w. frame	36/40
al - 1.2MB & 1.44MB	89

RD DRIVES :

NNER

S-420A 420MB 14ms IDE 1" ht	179
S-540A 540MB 14ms 32k IDE 1" ht	199
A-850A 850MB 12ms 256k IDE 1" ht	289
P-1060S 1.06GB 10ms 256k SCSI	539
A-1275A 1.2GB 12ms 256k IDE 1" ht.	449
P-2105S 2.1GB 10ms 1/2 ht	895

JITSU (5 yr. warranty fr. Fujitsu)

2684TAU 540MB 12ms IDE 1" ht	215
2684SAU 540MB 12ms SCSI 1" ht	239
2694ESA 1.0GB 10ms SCSI-2 3.5" 1/2 ht	499

XTOR

T-7135A 135MB 15ms IDE 3.5"	135
T-7345S 345MB 15ms SCSI 1" ht	189
T-7420AV 420MB 12ms 32k IDE	179
T-7540A 540MB 14ms 64k IDE	209
T-7546A 546MB 12ms 256k IDE	215
T-71260A 1.2GB 12ms 256k IDE	449
tical Rewritable 1.3GB 19ms SCSI, 4MB Ext.	
hiti III MXO-9410000 Drive only	2175
B Glass Cart. MXO-2015382 512k sector	165
B Plastic Cart. MXO-2015383 512k sector	135

CROPOLIS

-2217A 1.75GB 10ms 512k IDE 1/2 ht	779
-2217 1.75GB 10ms 512k SCSI-2 1/2 ht	859
-2217AV 1.75GB Audio Visual	1045
-4221 2.1GB 8.5ms 512k 1" ht	1045
-1936 3.0GB 11ms 256k SCSI full ht	1455
-1936AV 3.0GB Audio Visual	1655
-3243 4GB 8.5ms 512k 3.5" ht	1995

JANTUM

S-270AT 270MB 12ms 128k IDE	169
-540A 540MB 11ms 128k IDE	219
-540S 540MB 11ms 128k SCSI-2	239
/-540A 540MB 14ms 128k IDE	199
/-540S 540MB 14ms 128k SCSI	219
-730A 730MB 11ms 128k IDE	259
-730S 730MB 11ms 128k SCSI	279
-1080S 1.08GB 9.5ms SCSI-2	569
-2100S 2.1GB SCSI-2	895

AGATE

3491 420MB 14ms 128k IDE	179
-3660 540MB 14ms 128k IDE 1"ht.	215
-31200N 1.05GB 9ms 256k SCSI-2	559
-31200W 1.05GB 9ms Wide-SCSI	659
-31220A 1.08GB 12ms 256k IDE	459
-32550N 2.14GB 8ms 1M SCSI-2	1145
-12550W 2.14GB Fast-wide SCSI	1265
-43400N 2.9GB 10ms 512k SCSI-2	1895
-15230N 4.3GB 9ms 512k SCSI	1985
-410800N 9.0GB 11.5ms 1M SCSI	3665

ESTERN DIGITAL (3 yr. warranty)

D-2340 340MB 12ms 128k IDE	179
D-2420 420MB 13ms 128k IDE	185
D-2540 540MB 12ms 128k IDE	239
D-2700 730MB 10ms 128k IDE	269
D-31000 1.0GB 10ms 128k IDE	439

THERS

pression CardDrive (2 slot PCMCIA)	185
Mounting Frame for 3.5" Hard / Floppy Drive	5/5
Removable Case for 3.5" HD IDE / SCSI	39/42

7. I/O CARD

KOUWELL

AT I/O (2S 1P) / AT I/O (2S 2P)	25/29
AT I/O (2S 1P 1G)	25
AT I/O (2S 1P 1G) w. 16550 chips	42
Printer Card	15
Serial Card (XT, AT)	15

QUICKPATH

13 Port I/O w. 4-16550UARTs + Extd. IRQs (2IDE, 4F, 4S, 2P, 1G)	125
4 Serial, 16550UARTs, 8addr, 10IRQs (3,4,5,7,9,10,11,12,14,15)	99

SIIG (5 yr. warranty)

(2S 1P) w. 16550 chips	45

STB 4-COM

4 Serial, 16 bit, 16550, support Com 1-8, IRQ (2,3,4,5,10,11,12,15)	109

VITEX

AT I/O (2S 2P) w. 16550 chips	45

8. KEYBOARD

FOCUS

FK2001 101 Click	42
FK9000 129 Key Programmable	53

MICROSOFT

Natural Keyboard	98

NORTHGATE OMNI

101NI	*(65)69
102	*(65)69
Ultra T	*(89)95

SIIG (5 yr. warranty)

Suntouch Jr. 84 Key Mini	45
Supertouch 101 Click	53
Wavetouch 101 Soft	39

OTHERS

ANCER 101 Key (black)	42
BTC 84 Key Mini	35
Keytronic 101	35
Maxi 101 / Maxi 124	35/53
Mitsumi 101	29
Spill -resistant 101 Key	19.50
Unikey Natural Ergonomic Keyboard	45

9. MEMORY

DRAM

1MB x 1 - 80ns	6.20
256k x 4 - 80ns	5.50

SIMM

1 x 9 - 60ns / 70ns / 80ns	(1MB)	41/40/39
4 x 9 - 60ns / 70ns	(4MB)	149/145
16 x 9 - 70ns	(16MB)	599
256k x 9 - 70ns / 80ns		14/13
1 x 36 - 60ns / 70ns	(4MB , 72 pin)	175/165
2 x 36 - 60ns / 70ns	(8MB , 72 pin)	340/330
4 x 36 - 60ns / 70ns	(16MB, 72 pin)	569/559
8 x 36 - 60ns	(32MB, 72 pin)	1099
For Mac : 4MB x 8 - 70ns / 80ns		159/155

SIPP

1MB x 9 - 70ns (3 chips)	42

COMPUTER MEMORY (3rd party)

for Compaq, IBM available
for details and prices .... call Norman

KINGSTON MEMORY

current price .... call

LAPTOP / NOTEBOOK (3rd party)

for AST, Compaq, IBM, Macintosh, NEC
Packard Bell, Panasonic, Toshiba
for details and prices .... call Norman

LASER PRINTER MEM. UPGRADE

JET RAM (3rd party)
for Epson , HP, Panasonic, QMS, Texas Ins.
for derails and prices .... call Norman
PACIFIC DATA
for HP, Pro Tracer
details and prices .... call Norman

10. MODEM & FAX

BOCA

14.4 Fax Data Voice Int	155
14.4 Fax Int / Ext	*(89)/119
14.4 Pocket Fax	169
28.8 Fax 14.4 Modem Int / Ext	*(159/189)
28.8 Fax Modem v.34 Int / Ext	195/219

GVC (Maxtech)

14.4 Fax Int / Ext	65/89
PCMCIA 9624 Fax	99

HAYES

Accura 144 + Fax Int / Ext	*(99/129)
Accura 28.8/14.4 v.34 Modem Ext	245
ESP Communication : Single / Dual port	85/125
Optima 288 V.Fast 144 Fax Int / Ext	359/415
Optima 288 v.34 Ext	445
PCMCIA Optima 144 Fax	*(199)

MEGAHERTZ

PCMCIA XJ1144 Fax (MNP5)	*(185)
PCMCIA XJ2144 Fax (MNP10)	*(245)

MICROCOM

Deskporte ES 28.8 Fast 14.4 Fax Ext	189
Deskporte EP 28.8 Fast 14.4 Fax Ext	*(249)

PRACTICAL PERIPHERALS

Mini Tower 144FX144 Ext	119
PM144FX144 Int	99
288 Fax v.34 Int / Ext	209/225

SHIVA

Net modem/E Ethernet BNC/TP	1475

US ROBOTICS

Sportster 144/144 Fax MNP5 Int / Ext	99/119
Sportster 144/144 for Mac Ext	149
Sportster V.34 28.8/14.4 Fax Int / Ext.	205/219
Sportster V.34 28.8/14.4 Fax for MAC	259
Sportster PCMCIA 144 Fax	195

ZOOM (7yr. Warranty fr. Zoom)

144/144 Fax Modem & Voice Int / Ext	139/169
28.8 V.Fast 14.4 Fax Int / Ext	139/189
28.8 V.34 14.4 Fax Int / Ext	199/229

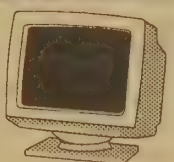
ZY-XEL

U1496B 16.8 Voice 14.4 Fax w. Software Int	289
U1496B+ upgradable to 19.2Kbps Int	397
U1496E 16.8 Voice 14.4 Fax, LED Ext	299
U1496E+ upgradable to 19.2Kbps Ext	399

OTHERS

CommShare 550 Phone & Fax Auto-switch	75
CommShare 750 4 Port Switching	99
Intel Plus/OCR 2.0	*(45)
National Semiconductor TyIN 2000 Int	*(75)
SIIG TeleCommunicator 10-in-1 Fax	219
14.4 Fax modem Int	59

11. MONITOR



EYE Q

SM1411 14" Flat Mono Amber Paper White	85
M447AU 14" 1024 x 768 .28 NI	249

HITACHI

CM1586MU 15" Flat 1280 x 1024 .28 NI	369
CM1797M 17" Flat 1600 x 1200 66Hz .26 NI	975
NS1764 17" Flat 1280 x 1024 60Hz .26 NI	715

IDEK

MF-8115 15" 1280 x 1024 .28	415
MF-8617 17" 1280 x 1024 .26	769
MF-8621 21" 1600 x 1200 .26	2235
MT-9121 21" 1600 x 1200 .30	1895

KFC

CT1428A 14" 1024 x 768 .28 NI	249
CA1507 15" Flat 1280 x 1024 .28 NI LED.	375
CA1508 15" Flat 1280 x 1024 .28 NI LCD	389
CA1718 17" Flat 1280 x 1024 .26	745

MAG (auto switch power)

DX15F 15" 1280 x 1024 .28 NI (no LED)	369
DX17F 17" 1280 x 1024 .26 NI (no LED)	669
MX17F 17" Flat 1280 x 1024 .26 NI	915

MITAC (3 yr. warranty)

M1564 15" 1280 x 1024 .28 NI	325
M1775 17" 1280 x 1024 .28 NI	629

NANAO

F340iW 15" Flat 1024 x 768 .28 NI	625
F550iW 17" 1280 x 1024 .28 NI	*(869)979
T560i 17" 1280 x 1024 .25, Trinitron NI	1385
F760iW 21" 1280 x 1024 .31 NI	1895
F780iW 21" 1600 x 1280 .26 NI	2995
T2.17 17" 1280 x 1024 .25 NI	1285
T2.20 20" 1280 x 1024 .31 NI	1955

NEC

2V 14" 1024 x 768 .28	329
3FGe 15" 1024 x 768 .28 NI	*(459)
4FGe 15" Flat 1024 x 768 .28 NI	*(599)
XP15 15" 1024 x 768 .28 NI	655
XV15 15" 1024 x 768 .28	439
XE17 17" 1024 x 768 .28 NI	985
XP17 17" 1280 x 1024 .28 NI	1249
6FGp 21" 1280 x 1024 NI	1995
XP21 21" 1600 x 1200 .28 NI	2449
Monitor Lens : 4FG / 5FG / 6FG	75/*(99)/185

NOKIA

449E 15" 1280 x 1024 .28 NI	*(425)499
447L 17" 1024 x 768 .28 NI	749
447X 17" 1600 x 1280 .25 NI	1059
445X 21" 1600 x 1280 .26 TCO	2485

OPTIQUEST

1000S 14" 1024 x 768 .28 NI	249
1500D 14" 1280 x 1024 .28 NI	349
2000DC 15" 1280 x 1024 .27 NI	399
4000DS 17" 1280 x 1024 .27 NI	649
4000TC 17" 1280 x 1024 .25 Trinitron NI	799

PANASONIC

C1791E 17" 1280 x 1024 .28 NI	739

PROTON

GM1449A 14" 1024 x 768 .28 NI	245
GM1563 15" 1280 x 1024 .28 NI	345
GM1563B 15" 1280 x 1024 Black	359
PM1561A 15" 1280 x 1024 w. speakers built-in	345

SONY

15SF 15" 1280 x 1024 .25 NI	429
17SE 17" 1600 x 1280 .25 NI w. After Dark	989
17SF 17" 1280 x 1024 .25	869
20SE 20" 1280 x 1024 .30 NI	1835

STANDARD TECHNOLOGIES

428-VESA 14" 1280 x 1024 .28 NI	249

TATUNG

20" Analog 1280 x 1024 .31	795

VIEWLOGIC

10" SVGA Mono Paper White 1024 x 768	129

VIEWSONIC

6e 14" 1024 x 768 .28 NI	275
15 15" Flat 1280 x 1024 .28 NI	429
15ES 15" 1024 x 768 .28 NI, MacII	345
17 17" 1600 x 1280 .27 NI, MacII	849
17G 17" 1280 x 1024 .28 NI	749
20 20" 1600 x 1280 .28 NI, MacII	1449
21PS 21" 1600 x 1280 .26 NI, MacII	1669

12. MOTHERBOARD

AIR (w/o cpu)

486-DX2-66 256k, 3VLB slots, built-in AT I/O	189
486-33 / DX2-66 256k, EISA, 3VLB slots	349
586-90 256k, EISA, Adaptec SCSI, Floppy, w. I/O built-in	659
586-90 256k, EISA, Adaptec SCSI, Floppy, dual processor, w. I/O built-in	769
586-90 256k, ISA PCI VLB, w. I/O built-in	379

AMI (w/o cpu)

Super Voyager III 486-DX2-66 VLB, 7 slots	369
Enterprise IV 486-DX2-66 256k EISA VLB	465
586-90MHz PCI 256k w. IDE I/O	479

ASUS (w/o cpu)

486-DX2-66 256k VLB	139
486-DX2-66 256k PCI, built-in IDE+SCSI I/O	275
586-90 / 100 256k PCI EISA, dual processor	779

IBM (OPAL)

486SLC-66 VLB w. CPU & Math Proc	165

INTEL (w/o cpu)

586-90MHz 256k PCI, built-in IDE I/O	359

LYNX (USA made, w/o cpu)

486-33 / DX2-66 256k VLB Green PC	135
486-DX4-100 256k PCI/ VLB	159

MICRONICS (w/o cpu)

BCP 386-33 64k, 4MB max	79
486-33 / DX2-66 256k VLB	179
JX3WB 486-DX2-66 256k VLB w. write-back cache	279
486 - 33 / DX2-66 256k EISA VLB	425
586-60 256k, ISA PCI, 3PCI slots	415
M5PE 586-60 / 66 256k EISA	595
M54PI 586-90 w. IDE I/O (Neptune)	445

NICE (w/o cpu)

486-33 / DX2-66 256k VLB, Green PC	139
486-50 / DX2-66 256k EISA VLB	315

SHUTTLE (w/o cpu)

486-DX2-66 256k 3VLB slots, Green PC	125
486-DX2-66 256k EISA 3VLB slots	239

SUPER P54VL-PCI (w/o cpu)

Pentium 586-90 256k Flash Bios	329

TIGER V

586-90MHz 256k PCI	299

13. MOUSE & JOYSTICK

AGILER

AGM-800E Serial 400 dpi	12.50
ATB-610 Serial Trackball	21.50
Master Plus 400	16.50

ANCER (black)

3-button	19

KENSINGTON

Expert Bus 4.0	119
Expert Serial & Trackball 4.0	99

LOGITECH

Cordless II	85
Cyberman 3D Controller	*(49)
First Serial	31
Fotoman Plus Camera for PC & PS/2	549
Mouseman Bus	64
Mouseman Serial	45

price) .... special, while supplies last

PG15 Bus oem	45
Trackman II	75
Trackman Portable	49
Wingman Extreme	49

MICROSOFT (USA made)

Bus 2.0 400dpi oem / w. Bus Card	43/65
Bus 2.0 w. Expansion Card	79
Home Serial 1.0	39.95
PS/2 2.0 (round connector)	59
PS/2 & Serial Mouse / w. adapter	41/45
Serial 2.0 400dpi oem : gray / white	29/35

MOUSE SYSTEMS

Altes Mouse	9.95
Cobra (joystick)	9.95
Mouse! Serial w. Pad	19
PC Mouse (3-button optical)	39.50
PC Trackball II	45
Serial Bus Card (9IRQs)	29
The New Mouse 400dpi (3-button)	39

JOYSTICK :

THRUSTMASTER

ACM Gamecard	29.95
F-16 FLCS	135
Flight Control System MK II	75
Flight Control System Pro	119
Flight Stand Holder	19
Formula T1 / w. Indy Car	129/149
Rudder Control	118
Weapon Control MKII	109
UPROM	29.95

OTHERS

Analog Plus (by Sun Comm)	*(19.99)
Analog Pro (by Advanced Gravis)	29
Dexxa Serial Mouse	19.50
PC Gamepad (by Advanced Gravis)	19.95
Quickshot Smart Game Card	16.50
Star Trek Mouse Pad	7.99

14. NETWORK

3COM

3C503 Etherlink II 16 bit coax / TP	165/175
3C509 Etherlink III coax oem / reg	89/118
- 5 Pack oem / reg	445/529
3C509 Etherlink III TP oem / reg	*(75)/115
- 5 Pack oem / reg	*(365)/499
3C509 Etherlink III Combo oem / reg	99/129
- 5 Pack oem / reg	495/559
3C509 TPO 5 pack	449
3C529 Etherlink III for MCA coax / TP	235/239
3C579 Etherlink III EISA coax / TP	228/229
3C589 PCMCIA TP	199
3C589 PCMCIA Combo	249
3C16170 Link Builder (12TP)	359
Transcend Link Builder FMS Management	350

ADDTRON

AE-200LC BNC & TP	52
HUB: UTP8/L (8TP +BNC + AUI)	149
HUB: UTP16/L (16TP + BNC + AUI)	299
HUB: UTP16 (16TP+BNC+AUI) RackMount.	399
Pocket Adapter BNC	115
Transceivers: ET10TB (TP<->AUI)	37
Transceivers: ET10CB (BNC<->AUI)	37

ALLIED TELESIS (CentreCOM)

AT-1500T	*(69)
AT-1700T TP	79
Transceivers: MX10 (AUI - BNC)	39
Transceivers: 210T (AUI - TP)	39

ARTISOFT (Lantastic)

Articom	*(99)
Central Station Netware	349
Central Station II	399
Corstream Server 5-user (8340)	*(499)
Lantastic Z (2 stations)	89
Lantastic 6.0 Starter Kit coax 2-user	*(235)
Lantastic 6.0 Add On NR-SI 2000C	*(115) ea.
- or ** Buy 2 Get 1 Free ** or ** 3 for $230 **	
Lantastic 6.0 Add On NR-SI 2000T	125
Lantastic 6.0 Software single user	75
- 6.0 for 5-user / 10-user	339/599
- upgrade for single	39
- upgrade for 5-user	*(99)
Lantastic for OS/2	99
Lantastic for TCP/IP single / 5-user	199/785
NR2000C BNC only (Lantastic 5.0)	167
NR2000T RJ45 only (Lantastic 5.0)	169
NR-SI 2000C coax / 5 pk / 10 pk	79/375/685
NR-SI 2000T TP / 5 pk / 10 pk	84/379/689
NR-SI 2000A Combo	99
Remote Boot ROM for NR2000	45

ASANTE (for Mac & PC)

AH1012 Intelligent HUB 12 Port	875
10T HUB 8 Port	199
10T HUB 12 Port (12TP + 1BNC + 1AUI)	369
FriendlyNet with AUI / BNC /TP	69

BOCA

HUB: 8 Port TP only	149
HUB: 16 Port TP only	269
LAN Card : ISA TP / ISA Combo	59/69
LAN Card VLB TP	75
PCI 32 bit Ethernet Combo	89
PCMCIA 10BT Ethernet	169

CASTELLE

JetPress (network Print server) for HP II. IID, III, IIID, coax + TP	429
LANPress (print server connects up to 4 printers)	
- Ethernet Thick/Thin coax (1P 3S)	475
- Ethernet 10BaseT (1P 3S)	475
- Ethernet BNC & 10BaseT (2S 2P)	435

COGENT

EM525 Ethernet 16 coax / TP	118/119
EM525 Ethernet 16 Combo	135
EM595TP Ethernet PCMCIA UTP	199
EM932 EISA 32 bit coax / TP	238/239
EM960 32 PCI Full Duplex TP / Combo	135/159
EM964TP 32 PCI 4-Port Full Duplex TP	495

DIGIBOARD

network products	call

FARALLON

PN381 PhoneNet w. Timbuktu for Win	259
- Timbuktu 1.1 for Win software only	139

IBM

Ether 16 coax / TP / Combo	69/69/79

INTEL

EtherExpress 32 EISA coax (FS)	439
EtherExpress 32 Flash EISA Combo (WS)	229
EtherExpress PRO/100 PILA 8465 PCI TP	219
EtherExpress Pro 8/16 bit cards :	
- PCLA 8200 BNC + AUI + TP	129
- PCLA 8200 5 pack	559
- PCLA 8210 BNC + TP oem / reg	88/115
- PCLA 8210 5 pack	499
- PCLA 8220 TP oem / reg	74/109
- PCLA 8220 5 pack	469
- PCLA 8205 Flash BNC+AUI+TP	139
- PCLA 8205 5 pack	599
- PCLA 8215 Flash BNC + TP / 5 pk	125/549
- PCLA 8225 Flash TP / 5 pk	119/509
LAN Project 1.5 (virus protection)	685
LAN Sight Support 4.0	345
LAN Spool s/w 386 NLM v3.5A	425
Netport II Thin & Thick	395
Netport II 10BT	399
Netport Express XL	465
NetSatisfaxtion 2.5 for Novell	955

LANPRO

2000JC 16 bit BNC only	39
2000JT 16 bit TP	*(29)39
2000RAL 16 bit Combo	45
EP3010A Pocket Combo	115
HUB ER5390: 8 Port (9TP + 1BNC)	155
HUB ER5396: 16 Port (17TP + 2BNC + 2AUI)	295
Lan Card : PCI Combo / VLB	95/85
Personal Netware coax 1 user Kit	79
Personal Netware coax Starter Kit	139

MICRODYNE

Eagle NE200 PCMCIA coax / TP	235/199
Eagle NE3210 EISA 32 bit Combo	189
Eagle HUB: 8 Port TP (8TP + 1BNC)	185
Eagle HUB: 12 Port TP (12TP + 1BNC)	225
NE2000+ coax / 5 pack	*(79/349)
NE2000+ TP / 5 pack	*(69/319)
NE2000+ Combo / 5 pack	*(85/389)
NE3200 EISA coax / TP	450/450

NATIONAL SEMICONDUCTOR

InfoMover NE2000+ coax	*(75)85
- 5 pack	339
InfoMover NE2000+ TP	*(69)79
- 5 pack	299
InfoMover NE2000+ Combo	*(89)99
- 5 pack	415
InfoMover NE4100 PCMCIA coax / TP	175/179

NOVELL

Dos 7 (w. Personal Netware) oem / reg	45/55
Lan Workplace 4.2 single / 10-user	275/1295
Netware 3.12	
- 5 / 10 / 25-user oem	525/1155/1825
- 5 / 10 / 25-user reg	595/1345/1995
Netware 4.1 *(NEW, at introductory offer $)*	
- 5 / 10 / 25-user oem	560/1195/1895
- 5 / 10 / 25-user reg	615/1395/2075
- 50 / 100 / 250-user	2695/3895/6995
Netware NFS v1.2C	3150
NFS Client for Lan Workplace	205
Personal Netware oem / reg	39/75
Unixware Personal Edition - CD version	175
Unixware SDK v1.1 - CD version	75
Unixware NFS	135

SMC

8013 Plus Elite 16 coax / 6 pack	118/625
8013 Plus Elite 16 TP / 6 pack	119/599
8013 Plus Elite 16 Combo / 6 pack	139/775
8013 Plus/A for MCA / for TP	*(175)/199
Elite Ultra 16 coax oem / reg	85/109
- 6 pack	*(449)489
Elite Ultra 16 TP oem / reg	79/108
- 6 pack	*(399)455
Elite Ultra 16 Combo oem / reg	95/119
- 6 pack	*(499)549
Elite Ultra 32 EISA Combo	215
Ether EZ coax / TP	115/*(99)
Ether EZ Combo	*(115)
Etherpower PCI : TP / Combo	185/199
Netware Boot ROM for Ethernet	34
Tiger HUB: 3206TA 6 Port	185
Tiger HUB: 3212TC (12TP + BNC + AUI)	369

XIRCOM

PCMCIA CE-10B2 coax	*(215)
PCMCIA CE-10BT TP	*(199)
PCMCIA CE-10BC Combo	*(235)
PE3-10B2 Pocket Adapter coax	*(255)
PE3-10BT Pocket Adapter TP	*(259)
PE-3 10BC Pocket Adapter Combo	*(285)

CABLES & ACCESSORIES	***call***

15. NOTEBOOK

TOSHIBA

T1960CS 486-DX2-50, 4MB RAM, 200MB HD, 1.44BM FD, Dual Scan Color	2275
T1960CT 486-DX2-50, 4MB RAM, 200MB HD, 1.44MB FD, Active Color	2795
T1960CT 486-DX2-50, 4MB RAM, 320MB HD, 1.44MB FD, Active Color	3029
T3600CT 486-DX2-50 8MB RAM, 250MB HD, 1.44MB FD, Acitve Color	3699
T4700CT 486-DX2-50, 8MB RAM, 200MB HD, 1.44MB FD, Active Color	4399
T4700CT 486-DX2-50, 8MB RAM, 320MB HD, 1.44MB FD, Active Color	4629

OTHERS

ACC9400 9.5/10.4" Viewable Screen size, 128k, 4MB (expandable to 36), VLB w.1MB video ram, removable HD, built-in speaker & microphone :

- 486-33, 250MB(DSTN)	1945
- 486-33, 250MB (TFT)	2755
- 486-DX2-66, 250MB (DSTN)	1995
- 486-DX2-66, 250MB (TFT)	2799
- 486-DX4-100, 250MB (DSTN)	2255
- 486-DX4-100, 250MB (TFT)	2999

16. POWER SUPPLY

AMERICAN POWER CONVERSION

APC-400 Smart-UPS (286, 386 WS)	289
APC-600 Smart-UPS (386, 486 FS)	359
APC-900 Smart-UPS (386, 486, FS & WS)	515
APC-1250 Smart-UPS (multiple FS & WS)	639
APC-2000-2 Smart-UPS	1150
APC-400 Back-UPS (300W)	175
APC-450 Back-UPS (325W)	209
APC-600 Back-UPS (425W)	285
APC-900 Back-UPS (650W)	375
APC PowerChute Plus :	
- for Novell	65
- for OS/2, Lan Server, 3 Com	75
- for Unix / Xenix	99
- for Windows NT	69

PC POWER COOLING

Standard 220	
- for Desktop / Full Tower	85/85
Silencer 270	
- for Slim (baby or mid tower)	135
- for AT Desktop	165
- for Full Tower	159
Turbo Cool 300	
- for Slim (baby or mid tower)	139
- for Desktop	175
- for Full Tower	169
Turbo Cool 450	
- for Desktop	325
- for Full Tower	315
Twinpower 900 (redundant)	925

TRIPP LITE

Isobar 4	*(29.95)
Isobar 6 w. Fax Modem Protection	*(45)
Isobar Master Touch Plus w. RJ11	*(59)75
Isotel 4 w. RJ11	*(39.95)

OTHERS

250W for Baby AT	45
250W for Baby or Mid Tower	45
250W for AT / for Full Tower	47/49
300W for Full Tower	69
550W for UPS	279
1200W for UPS	659

17. PRINTER / PLOTTER

BROTHER

HJ-400 Desktop Ink Jet for PC or Mac	*(249)259
HI-630 Laser 6ppm	399
HL-641 6ppm, 1MB RAM	449
HL-645	459
HL655M for PC & MAC, 2MB RAM	599

CANON

BJ-200E Ink Jet	229
BJC-600 Ink Jet Par. 360dpi	535

CITIZEN

GSX-220 24 pin	179
GSX-230 Fonts & Quiet	219
GSX-240 Scalable Fonts & Quiet	285
GSX-245 24 pin, 132 column	365
Projet II Ink Jet	279
Accessories :	
- Color Option for GSX-130	45
- Color Option for GSX-145	65

DEC (Digital Equipment)

Printers	call

EPSON

Stylus Color Inkjet 720dpi	*(529)

HP (Hewlett Packard w. toner)

Color Laser Jet	5495
Desk Jet 540	289
Desk Jet 560C	*(469)529
Desk Jet 1200C PC, Mac	1045
Desk Jet 1200C Postscript PC, Mac	1595
Laser Jet 4+ / 4M+	1389/1899
Laser Jet 4L / 4ML	629/985
Laser Jet 4P / 4MP	939/1355
Laser Jet 4Si / 4SiMX	2875/3995
Laser Jet 4V / 4MV	1895/2749
Office Jet (printer-fax-copier) 3-in-1	759
Accessories :	
- Color Kit for 540	49
- Duplex C2061A for 4Si or 4SiMX	495
- Envelope Power Feeder 75 Sheet (HP4)	279
- J2550A Jet Direct TP	329
- J2552A Jet Direct Combo	395
- Legal, Letter or A4 250 Sheet Tray (HP4)	99
- Legal, Letter or A4 500 Sheet Tray (HP4)	109
- Lower Cassette w. Letter Tray (IIP, IIIP)	149
- Optional 500 Sheet legal Letter A4 (HP4)	279
- Postscript for LJ4	329
- Postscript C2013A for 4Si	575
- Toner for II, III	84
- Toner for IIP, IIP+, IIIP	76
- Toner for 4	109
- Toner for 4L or 4P	69
- Toner for 4Si	135
- Toner for 4V	149

LASER MASTER

Winjet 1200 (postscript for HP4)	*(549)
Winjet 1200+ (postscript for HP4+)	*(599)

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	*(745)

OKIDATA

ML184T 9 pin, Par	229
ML320 9 pin, Epson compatible	325
ML380 24 pin, Epson compatible	235
ML590 24-wire	429
OL400E Laser	*(425)
OL410E Laser 4ppm, 600ppi	*(565)
OL410E/PS Laser Postscript	*(799)895

PACIFIC DATA

ProTracer II Ink Jet (CAD Plotter) a4 to A2 size, 360dpi, I960RISC, 512k, 45dBA	979
ProTracer II-GL2 w. HP-GL2 & 2MB	1369
Accessories :	
- HP-GAL Emulation Card	375
- Ink Cartridges	19.50
- Postscript Emulation Card	375
- Sheet Feeder I / II	135/115

PANASONIC

1150 9 pin, 55dBA	139
1624 24 pin	379
2023 24 pin, Quiet .... (after rebate, 165)	185
2123 24 pin, 43.5dBA, Color capability	239
2130 Quiet Dot Matrix .... (after rebate, 169)	199
2135 Quiet Dot, Color .... (after rebate, 205)	255
3123 24 pin, Quiet, Scalable Fonts	259
3124 24 pin, Scalable Fonts, LCD	329
3624 24 pin, Quiet, 46.5dBA	399
J250 Ink Jet, 300dpi, 128 nozzle printhead	*(259)
4410 Accessories	
4430 Laser 5ppm, 1MB	665
4400 Led Page.......... (after rebate, 399)	449
4440 Laser 10ppm	995
4455 Postscript 11ppm	1695
5400 Led Postscript 4ppm . (after rebate, 499)	599
SP-100 Multi-function printer	769
Accessories for 4410, 4420, 4430. 4400 4440, 4450 4450I, 4455, 5400 available for details and prices	***call Norman***
Other Accessories :	
- 32k Buffer Dot Matrix KX-P43	65
- Auto Sheet Feeder for 1124 KX-P36	120
- Color Upgrade Kit KX-PCK11	55
- Serial Interface Card PS-13	75
- Single Bin Cut Sheet Feeder KX-PT10	95

SEIKO

Smart Label Printer Plus	*(99)
Smart Label Printer Pro	245
- Standard Label (2 rolls)	7.95

SUMMAGRAPHICS (Plotter)

DMP-60 A to D Size	1275
DMP-61 A to D Size	1275
DMP-161 A to D size	1599
DMP-162 A to E size pen	1899

(price) .... special, while supplies last

Hiplot 7100 A to D w. stand	1999
Hiplot 7200 A to E w. stand	2355

TEXAS INSTRUMENTS

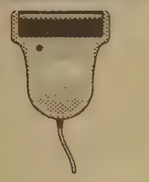
Printers	call

LASER PRINTER ACCESSORIES

PACIFIC DATA

25 in One! for HP DJ500	99
25 in One! for HP II, IID, IIP, IIP+, III, 4Si	245
Complete Font Library for HP III, IIID, IIIP	255
Font Bank for all HP Lasers (stores soft fonts) 0.75MB / 1.5MB	205/269
Pacific Connect XI : for HP II, IID, III, IIID -	
- 5 Port 256k / 1MB (4S 1P)	309/379
- 10 Port 256k / 1MB (10S)	449/519
for HP 4, IIISi, Paint Jet XL300 -	
- 7 Port 1MB / 4MB (6S 1P)	449/649
- 10 Port 1MB / 4MB (10S)	519/179
Pacific DirectNet for Novell	369
Pacific DirectNet for Novell, Unix & Ethertalk	299
Pacific DirectNetEX for Novell & TCP/IP	469
Pacific 4, Postscript for HP 4	259
Pacific Page 2MB, Postscript for HP II	365
Pacific Page II/XL 4MB, Postscript for HP II	699
Pacific Page PE for HP IID,IIP,IIP+,III,IIID,IIIP	279
Pacific Page PE 2MB	385
Postscript 4MB PE/XL for HP III	699
Plotter in a Cartridge for HP II	225
Plotter in a Cartridge PE for HP IID, IIP, IIP+, III, IIID, IIIP	225

18. SCANNER



HP (flatbed)

ScanJet IICX Color w. Kit	925
- Auto Document Feeder	475
ScanJet IIIP Gray Scale w. Kit	509

NFO

SF3GS Gray Scale 300 dpi w. OCR	225
SF12C Color 24 bit 1200 dpi w. OCR	349
- w. Auto Document Feeder (SF6CD)	539

LOGITECH (hand)

Scanman Easy Touch w. OCR	169
Scanman 256 / w. Omni Page OCR	135/155
Scanman Color w. Omni Page OCR	255
Scanman Power Page	399

MICROTEK (flatbed color)

Scan Maker II w. Photoshop L.E.	549
Scan Maker IISPX 300 x 600 dpi	875
Scan Maker III	2495

TAMARACK (flatbed color)

ArtiScan 24 bit, Color / 256 Gray Levels / SCSI-interface / for PC or Mac	
- w. Photoshop. & OCR 600 / 800 / 1200 dpi	485/585/695
- w. Photoshop 3.0 600 / 800 / 1200 dpi	635/735/855
Slide Scan Kit (transparency, slide, X-ray) 600 / 800 / 1200 dpi	525/525/595

19. TAPE BACKUP

COLORADO

DJ-20 250MB QIC-80	155
- AB-11 External Tape Port	35
- Cable (2FD & tape backup)	6
- DC2120 Pre-Formatted	12.99
- FC-20 Controller	69
- TC-15 Controller w. compression	155
- KE-09 External Kit w/o Controller	59
- Unix / Xenix Driver	99
DJ-35C 340MB Int	179
PT-10 PowerTape 1GB SCSI Int	599
PT-25 PowerTape 2GB 300Kb/s Int	965
PTE-25 PowerTape 2GB Ext	1095
PT-50 PowerTape 4GB 300Kb/s Int	1525
PTE-50 PowerTape 4GB Ext	1655
Tracker 250MB / 350MB (printer port)	285/315
- upgrade fr 250MB to 350MB	39.95

CONNER

CNR-2150S 250MB Int	325
CNR-250MQPT 250MB Ext	315
CNR-2525S 525MB Int	469
CNR-4320RT 2GB Int	745
CNR-4350XT 2GB Ext	985
CNR-4324RP 4GB Int	849
CNR-4354XP 4GB Ext	1145
Tape Stor 420MB w. cartridge Int	179

EXABYTE

EXB-2501 1 - 2GB SCSI-2 Int	499
EXB-2501 1 - 2GB SCSI-2 Ext	649
FS1G (2501 + Control Kit) Int / Ext	675/*(799)
EXB-4200 4mm Dat. 2GB Int	799
EXB-4200 4mm Dat. 2GB Ext	975
EXB-8205 8mm Dat. 2.5 - 5GB Int	1345
EXB-8205 8mm Dat. 2.5 - 5GB Ext	1595
EXB-8505 8mm Dat. 5 - 10GB Int	2035
EXB-8505 8mm Dat. 5 - 10GB Ext	2285

HEWLETT PACKARD

35470 4mm Dat. 2-4GB SCSI Int	789
35480 4mm Dat. 4-8GB SCSI Int	885
C1533 4mm Dat. 8-16GB SCSI Int	1059
HP Mounting Frame to 5.25"	27

OTHERS

Mountain Summit SE250 Int	135
Sytos Plus Backup s/w for Dos / Win	99/95
Tape Cartridges : 3M, Exabyte, HP, Maxell, Sony	call

20. VGA CARD

ATI

Graphics Expression 2MB PCI	229
Graphics Ultra Plus 2 DRAM w. mouse	199
Graphics Ultra Pro 2 ISA w. mouse	265
Graphics Ultra Pro 2 VRAM VLB	265
Graphics Ultra Pro 2 EISA	315
Graphics Ultra Pro 2 PCI	279
Graphics Pro Turbo 2MB PCI / VLB	379/379
Graphics Pro Turbo 4MB PCI / VLB	589/589
Graphics Wonder 1MB ISA / VLB	135/139

DIAMOND

Stealth 32 2MB PCI	185
Stealth 64 2MB DRAM PCI / VLB	209/209
Stealth 64 2MB VRAM PCI / VLB	299/299
Stealth 64 4MB VRAM PCI / VLB	469/469
Viper SE VRAM 2MB PCI oem	299
Viper SE VRAM 2MB VLB	359
Viper Pro VRAM 2MB PCI	399

MATROX

IMP Plus 1600 x 1200, 2MB PCI	415
- 2MB upgrade	265
IMP Plus 220 2MB PCI	485
VLB/2 Plus 1600 x 1200, 2MB VLB oem	335
- 2MB ugrade	215

MEDIA VISION

ProGraphics 1024 VL 256 Color 1MB	*(199)239
ProGraphics 1024 VL 16m Color 2MB	*(285)339

NUMBER NINE

T134020, 1280 x 1024, 90Hz, S3-928 chip GXe Level 12 VRAM 3MB ISA	375
GXe-64 DRAM 1MB PCI / VLB	195/195
GXe-64 DRAM 2MB PCI / VLB	249/249
GXe-64 Pro VRAM 2MB PCI / VLB	349/349
GXe-64 Pro VRAM 4MB PCI / VLB	529/529
Imagine 128 4MB PCI	849
Imagine 128 1600 4MB PCI	1129

ORCHID

Fahrenheit 64 1MB PCI / VLB	159/159
Kelvin 64 Windows Accel. 1MB PCI / ISA	145
Kelvin 64 Windows Accelerator 1MB VLB	145
Kelvin 64 Windows Accelerator 2MB PCI	189
Kelvin 64 Windows Accelerator 2MB VLB	189

SPIDER

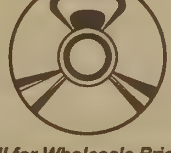
Spider 64 1MB VLB / PCI	135/135
Spider 64 2MB VLB / PCI	185/185
Spider 64 4MB VLB / PCI	285/285
Tarantula 2MB VLB / PCI w. free T-shirt.	279/279
Tarantula 4MB VLB / PCI w. free T-shirt.	389/389

OTHERS

Cirrus Logic CI5428 1MB	99
Cirrus Logic CI5428 2MB VLB	145
Cirrus Logic GD5434 64 bit 2MB PCI	169
MGP Card (monographic w. printer port)	29
Intel Smart Video Recorder	*(369)
Intel Smart Video Recorder Pro	439
Oak087 Super VGA 1MB	65
Paradise Window Accel 24 bit VGA	*(99)129
Video Plus (video image grabber)	185
V-Mate Pro (flicker free ext. video encorder)	189
WinVision (video capture)	165
S3 Vision 864 64 bit 2MB PCI	179

SOFTWARE

1. CD SOFTWARE



Call for Wholesale Prices

$5.99 Each

- Business Assistant - Clip Media 2.0
- Introduction PC & Dos
- JCSM Shareware Collection
- Lazer Tax - Selectware
- Shareware Supreme
- Windows Shareware Gold

$6.99 Each

- 20th Century People - 20th Century Sports
- Audubon's Birds - Audubon's Mammals
- Best of 20th Century - Capital Hill
- California Collection - CD Game Pack (5 titles)
- Game Arena
- Ultimate Collection : Education & Games
- Windows Expert MPC

$7.99 Each

- CD Power Box 2.0 - CD Windows Box 1.01
- Chaos Continum - Dr. Fun Pack
- Dr. Music - Magic Death
- My Talking Dictionary - Rupert
- Space Shuttle - Super Games Dos
- Super Game I / II / III for Win
- Travel Companion

$8.99 Each

- Adventure in Heaven - Audio Tester
- Best Asian Hits (cooking)
- Better Windows Better Works
- Cybergenic Ranger
- Four Footed Friend (Zoom books)
- Harry's Story Disc & Coloring Book
- MPC Multimedia Showcase
- Monster Media '93 - Teddy's Big Day
- To Much Shareware - Shareware Heaven
- Shareware To The Maxx
- Stradiwackius (Vroom books)
- Thunder Media Sound Library
- US Atlas 4.0 MPC - Windows Heaven 2

$9.95 Each

- 101 Best Games # 1 DOS (~ Top 201 Games)
- Abacus Island - Arcade (companion CD)
- Berenstain Bears: Learning At Home
- Best Windows Games (52 programs)
- Bible Land & Bible Stories
- Bible Study and Games
- Doom Fever + Doom II Accessories
- Gus Goes to Cybertown
- Hier to the Throne - Hobbies & Leisure
- Home & Business Partners WIN
- Kids Games (46 games) WIN
- Learning Heaven
- Learn to Read in Wordland
- Learning Games (42 programs) WIN
- Leisure Game Pack (81 games)
- Magic of Alphabet - Mother of Clipart
- New Basic Cookbook - Newsweek Interactive
- Planet Fun - Quantum Castle
- Sing-a-long Children (Dr. T's) MPC
- Thinking Games - Top 201 Games
- Top Ware Limited (500 games)
- Top Ware Spiele (500 games)
- US Helicopter - US Submarine
- World + US Atlas

BRODERBUND

Alian Tale	36
Arthur's Birthday MPC / MAC	36
Arthur's Teacher Trouble MPC / MAC	15
Harry's Haunted House MPC / MAC	36
Just Grandma and Me WIN / MAC	15
Kid Pix Studio	43
Living Book Sampler	3.99
Math Workshop	38
MYST MPC oem / reg	29/45
MYST MAC / Guide Book	48/16
Playroom	35
Printshop Deluxe CD Pack	75
Ruff's Bone MPC / MAC	36
The Little Monsters At School MPC / MAC	36
The New Kid On The Block MPC / MAC	35
The Tortoise and the Hare MPC / MAC	35
Where in the World is Carmen Sandiego oem	*(16)

CD SAMPLERS

Discovery Channel	9.95
Dorling Kindersley	4.50
Interplay's	8.99
Mayo Clinic	5.99
Microprose Game	5.99
Star Trek Next Generation Demo	4.99
Under A Killing Moon	4.50

CHESTNUT

All Titles	*8.95 each*

- 3 Stoogers - Animal of the World
- Betty Boop - Bible and Religion
- Bugs Bunny - Business Clipart
- Charlie Chaplin - CIA Papers
- Classic Cartoon - Clip Art Warehouse
- Comedy Store : Insane Impersonations
- Complete Home and Office Legal Guide
- Computer Reference Library
- Daffy Duck
- Death Star Arcade Battles
- Dictionary and Languages
- Encyclopedia of Sound
- Fate of Star Lords
- Flash Card Video (Math for grade 2-5)
- Game Jumboree - Gardening
- Godzilla vs. Megaton - Ham Radio
- Hilarious Sports Bloopers
- HIV Resource AIDs Guide
- Hugo House of Horrors
- Midi Master Collection - Multimedia Manian
- Night of the Living Dead
- Our Solar System - Personal Finance
- Porky Pig - Sound Sensation
- Technotools - Too Many Type Fonts
- TV Commercials
- The Complete Book Shop
- Windoware - World Traveler

-- Circle of Knowledge (2CD)	16
-- Shareware Overload Trio Pack	19

COREL

Corel Artshow '94 (book+CD)	29
Corel Artshow '95 (book+CD)	32
Corel Gallery	34
Corel Professional Photo CD	*(19) each

- Butterflies - Birds - Coasts - Deserts
- Food - Fields - Hawaii - Hong Kong
- Insects - Japan - Lakes & Rivers
- Mountains - People - Sunrise & Set - Wildlife

Corel Sampler	*(9)

DISCIS Series DOS, WIN, MAC

All Titles	*9.95 each*

A Tree Through The Seasons
Aesop's Fables + Cinderella
Birds and How They Grow
Butterflies Cinderella + Thomas Swimsuit
Dinosaurs Farm Animals
Heather Hit Her First Home Run + Peter Rabbit
Moving Gives Me Stomach Ache + Heather
Long Hot Day At The Ranch + Scary Poems
Night Before X'mas + Long Hot Day At Ranch
Paper Bag Princess + Mud Paddle
Somebody Catch My Homework
Spiders
Tale of Benjamin Bunny + Peter Rabbit
The Scary Poems for Rotten Kids
Whales What Air Can Do

FUTURE THINKING

All Titles	*8.50 each*

Board Games Bridge & More
Business Tools Children's Paint
Desktop Publishing Fantasy Quest
Fonts Fun with 1-2-3
Fun with ABCs #1 / #2 Fun with Numbers
Fun with Spelling Fun w. US Geography
Invasion Force Mail Works
Math Adventure Musics
Space Games Story Maker
Super Sports War Games

LASER SOFT

Advanced Learning Fun (age 8 & up)	16
Animal Magic (6 games) DOS, WIN	*(23)
Apogee's Greatest Hits	12.50
Banners WIN	*(13)
Board & Strategy (26 games)	*(9.95)
Brain Teasers (28 games)	*(9.95)
Business Made Easy	*(13)
Cards and Dice (24 games)	14
Clip Art & Fonts WIN	*(13)
Doom Companion (24 utility programs)	12.50
Early Learning Fun (age 4-7)	*(13)
Family Learning	*(9.95)
Fly and Drive (4 games)	*(13)
Fonts & Clipart Collection	*(9.95)
Graphics & Sound Explorer (33 utilities)	*(9.95)
Home Computer Start Pack (30 programs)	*(13)
Labels WIN	*(13)
Leader Board Golf Game (16 courses)	15
Links Collector Golf	*(14)
Links Solid Gold - 7 Courses	16.50
Pinball WIN	*(18)
Private Eye	*(13)
Publishers Toolbox (31 utilities)	*(9.95)
Screen Effects	*(9.95)
Top Tracks	*(13)
Triple Tris	*(13)
Video Arcade Classics (33 games)	*(9.95)
Video Gambling WIN	*(15)
Windows Toolbox (33 utilities)	*(9.95)
Wolfeinstein 3D + Blade Stone (companion edt)	14

MEDIA VISION

Always Arthur	9.95
Buster First Thunderstorm	9.95
Critical Path oem / reg	17/26
Forever Growing Garden	*(19)
Quantum Gate oem / reg	17/24
Who Wants Arthur?	9.95
Wriggling in Story Land oem / reg	17/26

MICROSOFT

Ancient Land oem / reg	29/45
Art Gallery Multimedia MPC	*(45)55
Cinemania '94 / '95 MPC	29.95/*(45)
Complete Baseball MPC	*(29.95)
Dangerous Creatures oem / reg	25/45
Dinosaur oem / reg MPC	29/53
Encarta '95 oem / reg MPC	45/89
Entertainment Sampler	5.95
Golf oem MPC	17
Haunted House	46
Magic School Bus: Human Body	45
Magic School House: Solar Systems	45
Multimedia Beethoven 9th Symphony	53
Multimedia Bookshelf '94 oem / reg WIN	34/*(45)
Multimedia Mozart MPC	53
Multimedia Schubert MPC	53
Multimedia Stravinsky MPC	53

(price) .... special, while supplies last oem .... $ bundled with hareware only

Musical Instruments MPC oem / reg	29/53
Office Developer's Tool Kit	*(45)
Office Professional 4.3	*(335)
Ultimate Robot	55
Works v2.0 / v3.0 / v3.0 + Money	17/24/29

PLATINUM Series

Education Platinum	9.95
Font Platinum / Game Platinum	9.95/9.95
Home & Business Platinum	9.95
Multimedia Platinum	9.95
Publisher's Platinum	9.95
Utilities Platinum / Windows Platinum	9.95/9.95
Platinum Product Active Pack (2CD, 4 titles)	25
Sampler	3.99

POWER SOURCE

Titles at . . . . 7.50 each

- 3D Animation - 16 bit Sound Masterpiece
- 40 Interactive Stories
- 14000 Multi. Programs - All You Can Play
- Beauty of San Francisco
- Botanical Encyclopedia - Business Library
- Chinese Common Idioms and Games
- Chinese Painting - Chinese Recipes
- China Traveler - Clip Art Library
- Complete Linux - Computer Super Market
- Desktop Publisher's Dream
- Digital Gourmet - Game Galore
- Interactive Chinese & Games
- Internet Toolkit - Las Vegas Casino Games
- Library Images - Massive Midi Collection
- Math Made Fun (MPEG)
- Midi & Wave Workshop
- Music From Heaven - Music Tool Box
- Programmer Power Tools - Perfect Pictures
- S.A.T. Survival Kit - Secret Subjects
- Secret of Korean Beauty - Sound Library II
- Sharing 2700 True Type Fonts
- Travellers Handbook in 6 Languages
- Windows Graphics Viewer
- Win 51 Games - World of Education

MPEG Titles . . . . 7.95 each

- Alibaba 40 Thieves - Girls Lost in Moracco
- Karaoke : Come and Sing Praises
- Jack & Bean Stalk - Popeye Cartoon

ROCELCO

All Titles . . . . 9.95 each

3D Action Adventure
Best of the Arcade Shareware
Best of the Best Shareware
Best of Board Games Shareware
Children's Coloring World
Gambler's Shareware Paradise
Flight Arcade Games
Hottest New Releases vol.1 / vol.2
Kids 4-10 Yrs. Educational
Learning & Tutorials Trivia Games

All Titles . . . . 12.95 each

ATM & True Type Fonts
Business & Utilities Clipart Collection
Educational Fun & Games
Graphics & Paint Interests & Misc.
Windows Application

WALNUT CREEK

4.4 BSD Lite	17
2000 True Type Fonts	24
Ada CD Rom v.2	18
Beer - Home Brewing	25
Best Application (business & home)	29
C User Group Library	22
CD Rom of CD Rom	*(9)
CICA MS Windows '95	13
Clipart Cornucopeia	17
CP/M	23
Doom Shareware vol.1	8
Doom Tool Kit	15
East Asian Text Processing	23
Fractal Frenzy	17
Free BSD 2.0 (Jan '95)	*(19)
G N U for Unix & Sun	23
Garbo DOS, MAC	13
GIF Galore	17
Giga Games (3000 titles)	16
Hobbes OS/2	14
Inter Net Info	18
La Collection (Eng & Spanish).	18
Libris Brittania	25
Linux 2.0 Tool Kit (2CD)	18
Nebula for Next Step Intel	25
Nova for NEXT	25
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- Legend IV
- Legend of Overfiend (cartoon : Urotsukidoji)
- Mind Shadow
- New Wave Hooker 2
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- Digital Dancing
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- Men's Club (video)
- Movies For The Night (video)
- Nature Bounty - Obsessions
- Only 20 - Oriental v.1, v.2, v.3
- Petty Baby - Pink Ladies
- Sakura I, II, III
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- Taboo 94' (video)
- World Best Breasts - World Best Butts

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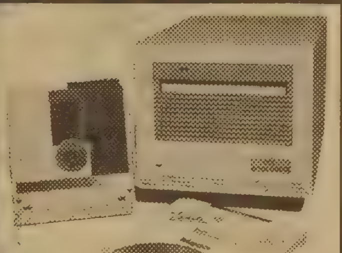

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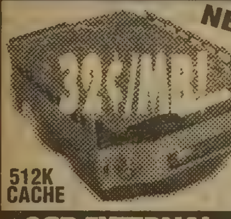

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ONLINE SERVICES *continued from page 119*

graphics on Web pages, and it does a good job of downloading and displaying pictures in all of the Web-supported formats. But there's no support for external programs to play sounds or animations. You also can't mark or copy portions of Web pages that aren't specifically set up on download buttons. Complete pages can be downloaded and saved in text-based HTML format, but there's no way to use the browser offline to review saved Web documents or pictures.

In the meantime, sophisticated Web heads will probably want to take advantage of Hooked's ability to run third-party Web browsers like Netscape, the OS/2 Web Explorer, or other variants of Mosaic. Fortunately, Hooked subscribers have an alternative to using the Pipeline interface. Hooked has implemented a UNIX utility called TIA that allows callers to simulate a true SLIP connection to the Internet.

To use Hooked and TIA, you must configure a TCP/IP protocol stack on your computer as you would with other Internet service providers. You log into the same Hooked telephone number with a TCP/IP dialer such as Trumpet Winsock or the Macintosh System 7.5 stack. Once you log in through a dial-up script, the TIA command activates SLIP emulation.

You can then use any third-party Web browsers, FTP, or mail utilities. Hooked works fine with Trumpet and the Netscape browser, and I also tested it under OS/2 Warp, using IBM's built-in TCP/IP stack and their Web Explorer. I was able to use the entire suite of OS/2 Warp Internet utilities through Hooked, and they functioned as well or better than under the true SLIP account offered by IBM through their Global Network. If you dial into Hooked and activate TIA, you can also use third- party mail packages, newsreaders, gophers, and FTP utilities.

Misc.

I found that I wanted TIA only for Web browsing. Pipeline is quite a good tool for other Internet chores. The built-in Archie and FTP features are useful for initiating global file searches—much more convenient than manually logging onto someone's server and hunting up search tools through nested gopher menus.

The only significant drawback to Hooked's current service is that the top modem connection speed is still limited to 14,400 bits per second. Hooked management says that a new set of 28,800bps modems have been ordered and are on the way.

Hooked has a series of local dial-in nodes throughout the greater San Francisco and San Jose areas. Out-of-towners can also subscribe to Hooked and access the system through a local CompuServe Packet Network node, a local UNIX dial-up connection, or directly through the Internet.■

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Hooked for Windows and Macintosh, $25/mo unlimited access, $15/mo 10 hours + $2 ea additional hr.

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AMIGA

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models being used had thread adhered to their surfaces, forming a grid net. The pointer was then placed at intersecting lines on the grid. To draw an analogy from image digitizing, it reminded me of using the old three-pass DigiView setup, compared to today's video framegrabbers.

If you've been looking for a multiscan monitor for your Amiga, look no further than CD Solutions' CD-1401. This 14" .28mm dot pitch monitor scans from 15kHz to 36kHz and can handle all of the normal Amiga modes, including Super72 and Productivity. (It does not have speakers or composite input, however.) The display is bright and crisp—it appeared to be a quality product. The company is currently working on a 20" version. It was very nice to see a company so excited about bringing its products to the Amiga market.

Questar Productions was showing off its new terrain-modeling product, World Construction Set. The main advantage of this package over existing packages, like VistaPro and Scenery Animator, is that it is not limited to a small geographic area. You can animate landscape "flybys" over the United States, or even the entire planet, with reasonable memory requirements. The terrain can also include things like streams, roads, grass, etc. The demo animation being run was very cool.

If you are looking for a great TBC with a few extra features, be sure to check out Feral's Feral Effect. This is a TBC/Synchronizer and digital video effects device. It will work in concert with the Video Toaster and solve one of its biggest limitations: smooth image resizing. It's great for over-the-shoulder picture-in-picture shots.

PreVue Technologies was there with its array of Amiga-video accessories, including the indispensable Sync Strainer. This device is the only way to get multiscan monitors to cooperate with a genlocked Amiga/Toaster system.

If you are in need of a graphics and audio file catalog program, FOCUS GbR's graphicRECALL may fit the bill. It is basically a specialized front end for Elastic Reality's ADPro and makes a browsable catalog of miniature versions of your images. The actual file can be viewed/played by simply double-clicking on the miniature.

The L.A. Video Toaster Users Group had a booth and also a mini theater, where they were showing some of their members' fine video work.

There were many other exhibitors, including several retailers, and I wish I had the room to talk about them all. Suffice it to say there is still a lot of development and excitement for the Amiga/VideoToaster. Additionally, NewTek is very committed to continued support for the existing installed base. For a machine that is (temporarily) no longer in production, there is tremendous momentum here. This is good news for whomever picks up the Amiga technology, but they better hurry! ■

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Donetta Colboch and LightWave programmer Alan Hastings

MultiMedia & BEYOND

NEW FORMS OF VIRTUAL REALITY

continued from page 258

wide-angle film or video camera lens, delivering an immersive hemispherical or spherical viewing environment on low-cost hardware. VTV technology, a proprietary set of real-time coded algorithms from Warp California, Inc., gives a single viewer or multiple participants the ability to freely look around within a single broadcast video signal.

This software-driven solution for spatial freedom works in much the same way as anamorphic lenses for cameras and projectors do for squeezing and unsqueezing wide-screen format motion pictures--only, here, in multiple dimensions. Unlike QTVR, which is digitally mapped, VTV is optically captured and rereleased by the software's decompression algorithms. VTV can be interactively viewed on a television, computer monitor, or a head-mounted display. Viewpoint control can be achieved using either a low-cost input device such as a mouse, joystick, or cable TV remote control, or with a headtracked head-mounted display (HMD). Limited zoom control can also be integrated into the application, although low-resolution source material will degrade display image sharpness.

At present, VTV works on any PC with standard VGA card at video rates, and on a fast Pentium with a PCI SuperVGA at beyond 70 frames/second. VTV demos are available from the Intel Multimedia Marketing Group (contact Raza Zaidi). A Macintosh version is in development. Demo disks are available to game developers and other interested parties from Warp California, Inc.

FREE VR TOOL

VR is beginning to pop up all over the cybersphere. While cruising the Net recently, Morph Online—electro-id of *Morph's Outpost on the Digital Frontier* magazine—found news of a tool, based on Asymetrix's interactive multimedia authoring system Multimedia Toolbook v3.0. Called VRXplorer, it enables reproduction of a 360-degree view by editing a series of images previously captured using a video board.

VRX consists of the Author, with which you compose the various images in order to create the whole view, and the Player, containing the necessary objects and scripts to be included in your own software to play the view. VRX software is free for research purposes, and a "Virtual Visit to Venice" demo application is also available.

Software and further information are available at *http://www.univ.trieste.it/vrx/vrx.html* and soon at *ftp://ftp.cica.indiana.edu/pub/ pc/win3/toolbook/ vrx11.zip*. The message was posted in the sci.virtual-worlds Internet newsgroup by Paolo Tosolini of Italy, email *tosolini@psicosun.univ.trieste.it*. ■

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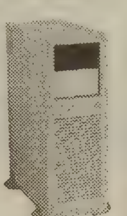

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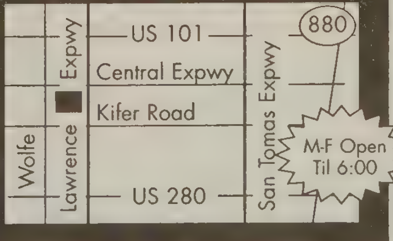

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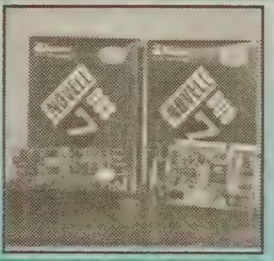

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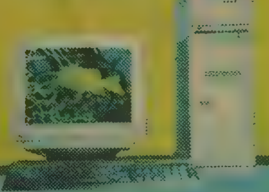

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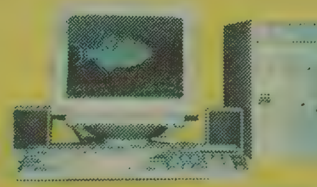

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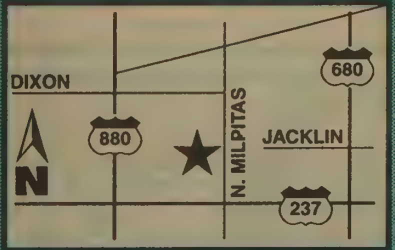

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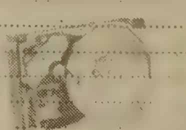

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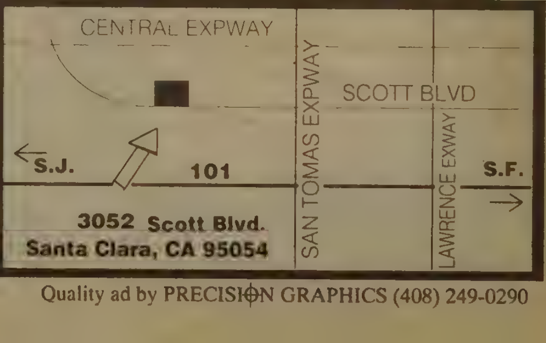

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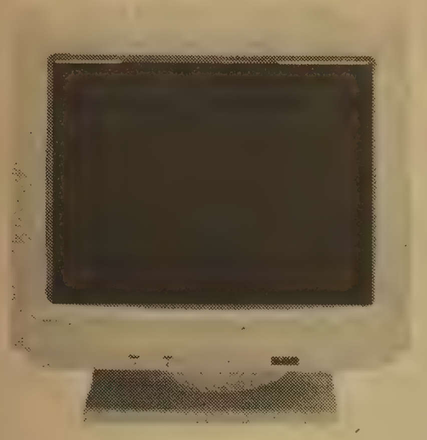

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F760iw 17"	1280X1024 .31dpi	$1792
T2-201 20"	1280X1024	$1871

MAG

DX15F 15"	1280X1024 .28dpi	$336
DX17FG 17"	1280X1024 .26dpi	$602

NOKIA

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449E	15" Non-int 1024X768 80Hz refresh	$479
447L	17" Non-int 1280X1024 110 refresh	$755
447X	17" Non-int. 1600X1280	$999
445X	21" Non-int 1600X1280 120Hx refresh	$2399

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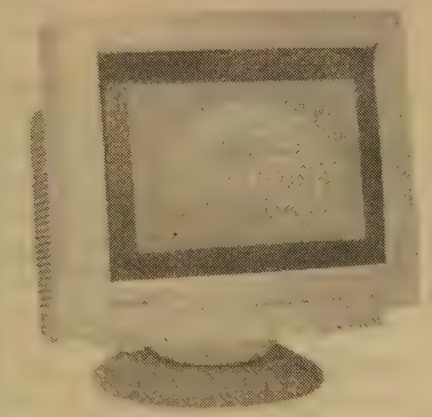

15 15"	1280X1024 .28dpi	$399
15G 15"	1280X1024 .28dpi	$372
15ES 15"	1024X768 .28dpi	$326
17G 17"	1280X1024 .28dpi	$678
17E 17"	1280X1024 .28dpi	$650
17 17"	1600X1280 .27dpi	$788
20PS 20"	1280X1024	$1355
21PS 21"	1600X1280	$1599

NEC

3V 15"	1024X768 .28dpi	$395
4FGe 15"	1024"X768 .28dpi	$607
5FGp 17"	1280X1024 .28dpi	$1092
6FGp 21"	w/ opticlear surface	$1941

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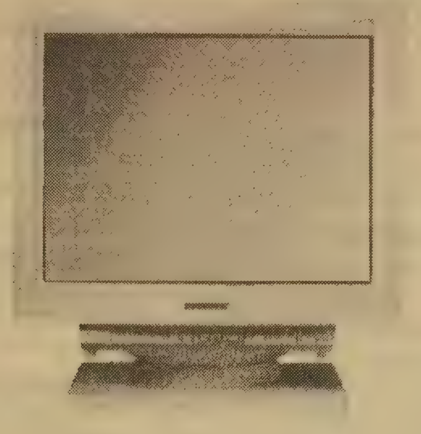
15"	SVGA 1280X1024 .28dpi digital	$332
17"	SVGA 1280X1024 .28dpi	$595
15"	SVGA 1280X1024 .26dpi digital	$637

SONY



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17SF 17"	1600X1280 .25dpi	$895
17SF 17"	1280X1024 .25dpi	$832
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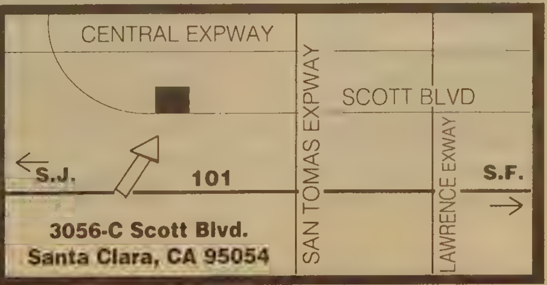

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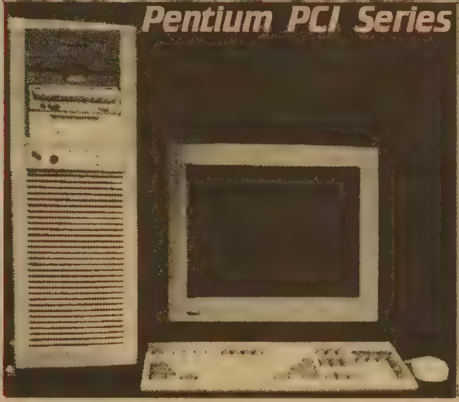

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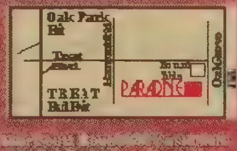

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Seagate	12400N SCSI	9ms	3.5"HH	$850/950
Seagate	32550N SCS	I 8ms	3.5"HH	$995/1095
Micropolis	4221 SCSI	9ms	3.5"LP	$919/1019

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DEC	5300S SCSI	10ms	5.25"FH	$1199/1299
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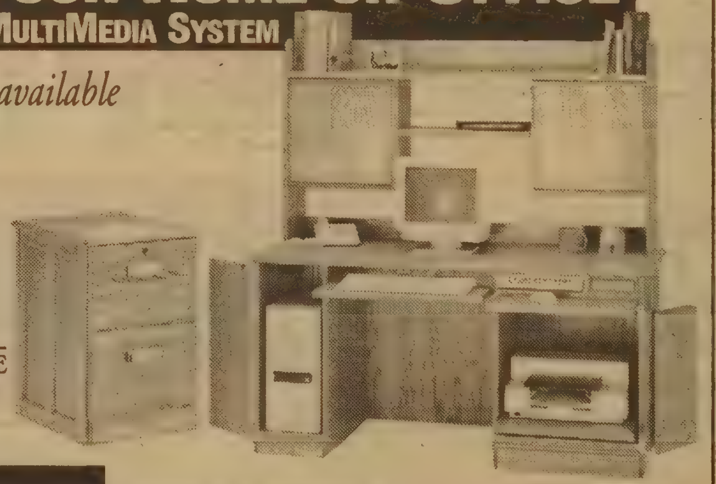

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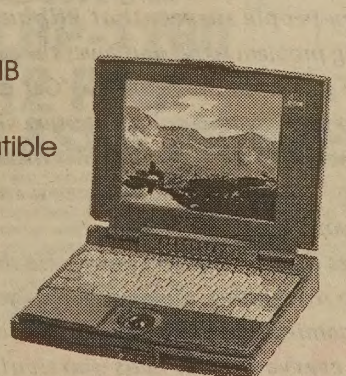

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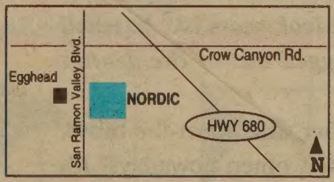

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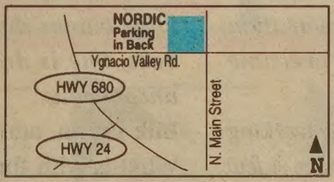

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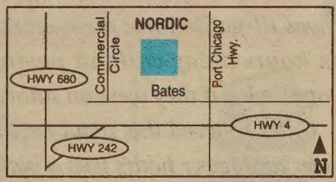

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The Bill Gates Birthday Bash In The Year 2040

Or

Does Dvorak Really Have A Play In Him?

Here's the famous "Pie Scene" from the Dvorak play *The Life and Times of the Greatest Software Salesman Who Ever Lived.*

The year is 2040. We're in New York City at the Finnair-Moscva-Waldorf Astoria Hilton in Midtown. The hotel has been redone once again and the marble has all been removed and replaced with the more expensive wood.

"Ah, wood!" people would say when they came to visit.

There's a gala affair in the grand ballroom—Bill Gates' retirement dinner and seventieth birthday. Bill hasn't aged well; he began drooling at the age of sixty-eight. On each side seated next to him at the head of the largest dining table ever seen are two gorgeous women, a blonde and a redhead, each with a small handkerchief. Sitting nearby is Bill's fifth wife, Nancy, who watches over Bill and prompts the girls to dab the drool from his chin when necessary.

Some people suspect that Bill has no drooling problem at all, but loves the attention he gets from the beauties. "Get rid of the two bimbos and substitute two Greek fishermen and see how long this drooling act lasts," says Steve Ballmer, now a codger of the worst kind.

Gates didn't want this party. He didn't want to retire either, saying that the "young punks coming into the company are ruining it for everyone." He was particularly annoyed at their work ethic. Since the unionization of software engineers in 2005 it was illegal to have them work more than six hours a day without paying overtime wages, even if they were on salary.

Gates believed this trend towards working fewer and fewer hours was a bad idea. A few years earlier he had invested in a genetic engineering firm that had developed a no-side-effects stay-awake pill. With it programmers could stay up for up to seventy-two hours straight, then revive with only six hours' sleep and work another seventy-two hours. Hugo Lawwson single-handedly coded Excel/X, the world's greatest spreadsheet while using these pills. Millions in development costs were saved. The pills became controversial when Lawwson died shortly after finishing the project, exactly one week after he decided to stop taking the pills.

Bill Gates sits at the head. At the other end are Harry Morrison and Hank Jeeves, who always sat together and were known as Hank and Harry.

Hank: Why do you suppose that Bill has made such a large table?

Harry: He made it clear that he wanted everyone to be able to say that they sat at Bill's table. The guy is a prince.

Hank: Prince? I can't even see him from here without binoculars.

Harry: So what? You can say you were at his table.

Hank: I wanted to talk to him. I was thrilled when I found out I'd be at his table. Now I find this situation. There are at least five thousand people at this table.

Harry: Biggest damn table I've ever seen. But nobody talks to him anymore anyway. 'Cept Mistress Nancy the boss lady up there near the front. I reckon she'll be running the company once the old man kicks.

The scene shifts to the head of the table. Nancy is flat on the table flailing with a knife in her right hand trying to stab Bill.

Nancy: KILL! KILL the beast! 666 mark of the demon! The Antichrist must die!

Three armed goons in solid black grab her, throw her on the floor, and beat her with large batons that look more like baseball bats. She is dragged out of the dinner unconscious.

Bill: Damn, another wife down the tubes. What is with these women nowadays? It's those violent TV shows, I tell you. If people went back to a seventy-hour work week this kind of thing wouldn't happen.

Blonde: Whatever you say...uh, darling!

Redhead: Hey, I saw him first!

Blonde: No you didn't!

> **Gates didn't want** this party. He didn't want to **retire** either, saying that the **"young punks** coming into the company are **ruining it** for everyone."

Redhead: Liar!

Further down the table. The contingent from Lo-Vell, the company that formed after the merger of Lotus and Novell.

Ben: I can't believe it. The old man Manzi still has what it takes to do the impossible. And every time he hypnotizes one of Bill's wives Bill can't tell what's happening.

Manzi: Hey, I heard that. Just because I'm eighty-something doesn't mean I'm old. Or am I seventy-something? Let me think. Where are we anyway? Whatever the case I didn't do it! It was someone else. Or maybe the woman was sincere? Did anyone ever think that was possible? Do you know what Bill Gates did on the sixth month of his sixty-sixth birthday...666? Do you?

Ben: No, what?

Manzi: I don't know. I thought you might know. Was it something weird? Devilish?

Ben: How should I know?

Manzi: Maybe the guy in the black mask sitting next to me knows.

The man takes off the mask to reveal it's Bill Gates.

Gates: You mean me? As opposed to that fraud up there?

Ben: Not another switched persons gag!

All the people at the table see the second Gates character and throw down their towels in disgust. Collective grumbling about the story line ensues. Actors complain about their parts in the play and how ridiculous the story is.

Blonde: You mean this isn't Bill Gates and this is some sort of play I'm doing. Like acting? Well, that's a dirty trick. Who is responsible?

She throws a piece of pie at the author, who is seated at the table.

Reconsiderations

Well, the story seemed like a good idea when it began. This thing will never see Broadway. ■

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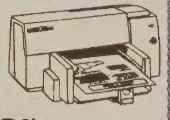

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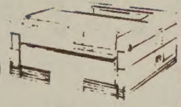

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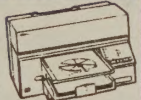

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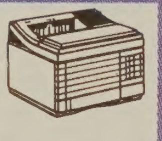

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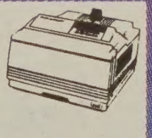

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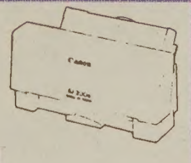

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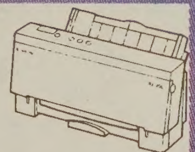

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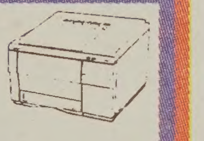

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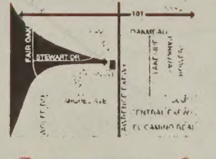

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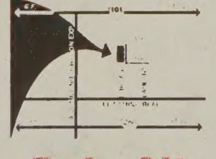

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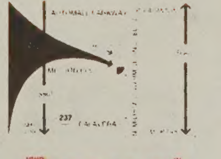

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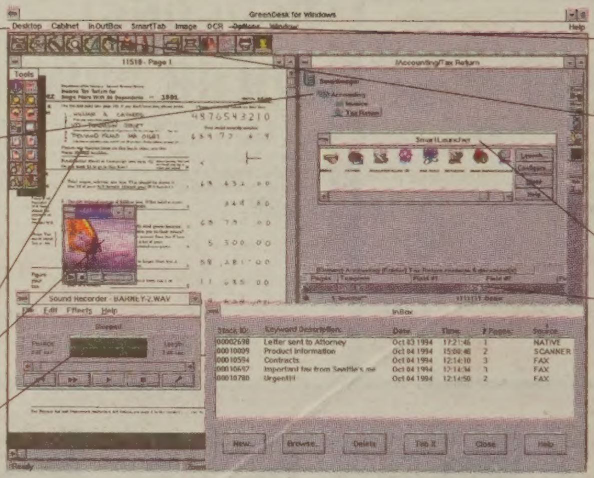

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